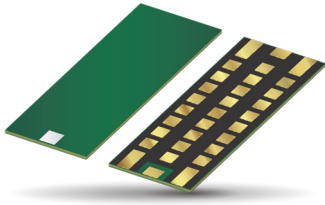


# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

### BP Series



#### GENERAL DESCRIPTION

The BP series of MLO® High Performance Band Pass Filters exhibit low insertion loss, steep roll-offs, and very high rejection of out of band frequencies. MLO® Band Pass Filters support many frequency bands and multiple wireless standards, and are less than 1.0mm in thickness.

MLO components are low profile devices with best in class performance based on KYOCERA AVX patented multilayer organic high density interconnect technology. MLO components utilize high dielectric constant and low loss materials to realize high Q passive printed elements, such as inductors and capacitors, in a multilayer stack. All MLO components are expansion matched to most organic PCB materials, thereby resulting in improved reliability over standard Si and ceramic devices

#### FEATURES

- Low insertion loss
- High rejection out-of-band
- Steep roll-off
- 50Ω Impedance
- Expansion matched to PCB
- Surface Mount
- RoHS Compliant

#### APPLICATIONS

- Wireless Communications Systems
- Military Radios
- EMS Radios
- UAVs
- Basestations
- Wireless access points and terminals
- Instrumentation

#### LAND GRID ARRAY ADVANTAGES

- Inherent Low Profile
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

#### HOW TO ORDER

|                                          |                                                                                                      |                  |                                    |                                 |                                     |                                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------|------------------|------------------------------------|---------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>BP</b><br>Series<br>Band Pass Filters | <b>0F</b><br>Case Size<br>0A = 2616<br>0B = 3116<br>0C = 3416<br>0D = 4016<br>0E = 4617<br>0F = 5021 | <b>A</b><br>Type | <b>1100</b><br>Frequency<br>In MHz | <b>A</b><br>Standard<br>Testing | <b>7</b><br>Termination<br>7 – Gold | <b>00</b><br>Package Code<br>00 – Waffle Pack<br>TR – 1000 pcs Tape & Reel<br>TR\250 – 250 pcs Tape & Reel |
|------------------------------------------|------------------------------------------------------------------------------------------------------|------------------|------------------------------------|---------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------|

#### QUALITY INSPECTION

Finished Parts are 100% electrically tested

#### TERMINATION

All finishes are compatible with automatic soldering technologies: Pb free reflow, wave soldering, vapor phase, and manual soldering.

#### OPERATING TEMPERATURE

-55°C to +85°C



#### ELECTRICAL SPECIFICATIONS

| Part Number   | Fc    |     | Passband Ripple <1.5dB |       |       | Insertion Loss < 5dB |       |       |     | Low Band   |            | High Band |       |       |       | Rated RF Power |
|---------------|-------|-----|------------------------|-------|-------|----------------------|-------|-------|-----|------------|------------|-----------|-------|-------|-------|----------------|
|               |       |     | <1.5 dB Ripple         |       |       | < 5 dB               |       |       |     | DC - 30 dB | DC - 40 dB | 30 dB     |       | 40 dB |       |                |
|               | GHz   | Typ | Min                    | Max   | BW    | Min                  | Max   | BW    | Typ | Max        | Max        | Entry     | Exit  | Entry | Exit  |                |
|               | GHz   | dB  | GHz                    | GHz   | GHz   | GHz                  | GHz   | GHz   | dB  | GHz        | GHz        | GHz       | GHz   | GHz   | GHz   | (W)            |
| BP0IA0110A7** | 0.110 | 1.7 | 0.092                  | 0.135 | 0.043 | 0.088                | 0.138 | 0.050 | 2.2 | 0.688      | 0.063      | 0.181     | 1.000 | 0.187 | 0.950 | 1              |
| BP0IA0115A7** | 0.115 | 1.7 | 0.094                  | 0.138 | 0.044 | 0.090                | 0.142 | 0.051 | 2.4 | 0.066      | 0.064      | 0.187     | 1.000 | 0.192 | 0.950 | 1              |
| BP0IA0120A7** | 0.120 | 1.7 | 0.095                  | 0.143 | 0.048 | 0.092                | 0.146 | 0.054 | 2.5 | 0.069      | 0.066      | 0.191     | 1.000 | 0.197 | 0.950 | 1              |
| BP0IA0170A7** | 0.170 | 1.4 | 0.132                  | 0.224 | 0.092 | 0.128                | 0.228 | 0.100 | 2   | 0.096      | 0.093      | 0.297     | 1.000 | 0.307 | 0.950 | 1              |
| BP0IA0175A7** | 0.175 | 1.4 | 0.135                  | 0.231 | 0.096 | 0.132                | 0.235 | 0.103 | 2.3 | 0.100      | 0.096      | 0.304     | 1.000 | 0.314 | 0.950 | 1              |
| BP0IA0180A7** | 0.180 | 1.6 | 0.143                  | 0.228 | 0.085 | 0.137                | 0.234 | 0.097 | 2.2 | 0.103      | 0.099      | 0.312     | 1.000 | 0.322 | 0.950 | 1              |
| BP0EA0270A7** | 0.270 | 1.6 | 0.231                  | 0.316 | 0.085 | 0.224                | 0.325 | 0.100 | 2.4 | 0.161      | 0.155      | 0.424     | 2.000 | 0.444 | 2.000 | 1              |
| BP0EA0280A7** | 0.280 | 1.7 | 0.234                  | 0.321 | 0.088 | 0.227                | 0.327 | 0.100 | 2.2 | 0.164      | 0.158      | 0.431     | 2.000 | 0.447 | 2.000 | 1              |
| BP0EA0290A7** | 0.290 | 1.7 | 0.244                  | 0.339 | 0.096 | 0.241                | 0.345 | 0.105 | 2.3 | 0.170      | 0.164      | 0.454     | 2.000 | 0.473 | 2.000 | 1              |
| BP0EA0400A7** | 0.400 | 1.3 | 0.303                  | 0.494 | 0.191 | 0.296                | 0.500 | 0.203 | 1.9 | 0.215      | 0.206      | 0.660     | 2.500 | 0.687 | 2.100 | 1              |
| BP0EA0420A7** | 0.420 | 1.3 | 0.316                  | 0.514 | 0.198 | 0.309                | 0.520 | 0.211 | 2   | 0.224      | 0.215      | 0.690     | 2.500 | 0.719 | 2.000 | 1              |
| BP0EA0430A7** | 0.430 | 1.3 | 0.323                  | 0.529 | 0.207 | 0.316                | 0.535 | 0.219 | 1.9 | 0.230      | 0.221      | 0.706     | 2.500 | 0.736 | 2.000 | 1              |
| BP0DA0585A7** | 0.585 | 1.3 | 0.472                  | 0.735 | 0.262 | 0.461                | 0.745 | 0.284 | 2.1 | 0.360      | 0.000      | 0.985     | 3.000 | 0.000 | 0.000 | 1              |
| BP0DA0595A7** | 0.595 | 1.3 | 0.478                  | 0.745 | 0.267 | 0.467                | 0.756 | 0.289 | 1.9 | 0.365      | 0.000      | 1.002     | 3.000 | 0.000 | 0.000 | 1              |
| BP0DA0650A7** | 0.650 | 1.3 | 0.485                  | 0.776 | 0.291 | 0.490                | 0.787 | 0.297 | 2   | 0.374      | 0.000      | 1.030     | 3.000 | 0.000 | 0.000 | 1              |

Click on part number to see full specifications

\*\*Packaging: 00 = waffle pack, TR = 1000pcs T&R, TR\250 = 250pcs T&R

# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

### ELECTRICAL SPECIFICATIONS - CONTINUED

| Part Number   | Fc    |        | Passband Ripple <1.5dB |         |        | Insertion Loss < 5dB |         |        |        | Low Band   |            | High Band |          |           |          | Rated RF Power |
|---------------|-------|--------|------------------------|---------|--------|----------------------|---------|--------|--------|------------|------------|-----------|----------|-----------|----------|----------------|
|               |       |        | <1.5 dB Ripple         |         |        | < 5 dB               |         |        |        | DC - 30 dB | DC - 40 dB | 30 dB     |          | 40 dB     |          |                |
|               | GHz   | Typ dB | Min Ghz                | Max Ghz | BW Ghz | Min Ghz              | Max Ghz | BW Ghz | Typ dB | Max Ghz    | Max Ghz    | Entry Ghz | Exit Ghz | Entry Ghz | Exit Ghz |                |
| BP0CA0770A7** | 0.770 | 0.97   | 0.628                  | 0.954   | 0.326  | 0.620                | 0.970   | 0.350  | 1.97   | 0.480      | 0.460      | 1.190     | 4.500    | 1.230     | 4.000    | 1              |
| BP0CA0810A7** | 0.810 | 1.3    | 0.668                  | 0.985   | 0.317  | 0.657                | 1.006   | 0.349  | 2      | 0.511      | 0.500      | 1.256     | 4.000    | 1.290     | 4.000    | 1              |
| BP0CA0825A7** | 0.825 | 1.3    | 0.680                  | 0.985   | 0.305  | 0.668                | 1.021   | 0.353  | 2      | 0.513      | 0.504      | 1.261     | 4.000    | 1.296     | 4.000    | 1              |
| BP0CA0855A7** | 0.855 | 1.4    | 0.708                  | 1.032   | 0.323  | 0.691                | 1.053   | 0.361  | 2      | 0.542      | 0.526      | 1.314     | 4.000    | 1.347     | 3.800    | 1              |
| BP0CA1070A7** | 1.070 | 1.1    | 0.887                  | 1.313   | 0.426  | 0.864                | 1.329   | 0.465  | 2.1    | 0.693      | 0.672      | 1.647     | 4.000    | 1.682     | 4.000    | 1              |
| BP0CA1090A7** | 1.090 | 1.3    | 0.898                  | 1.329   | 0.431  | 0.881                | 1.350   | 0.469  | 2.1    | 0.698      | 0.683      | 1.676     | 4.500    | 1.716     | 4.275    | 1              |
| BP0CA1100A7** | 1.100 | 0.95   | 0.881                  | 1.365   | 0.484  | 0.860                | 1.390   | 0.530  | 1.62   | 0.680      | 0.660      | 1.680     | 5.000    | 1.730     | 4.500    | 1              |
| BP0FA1100A7** | 1.100 | 1.19   | 0.915                  | 1.340   | 0.425  | 0.870                | 1.390   | 0.520  | 1.97   | 0.670      | 0.640      | 1.720     | 16.700   | 1.780     | 11.110   | 1              |
| BP0FA1130A7** | 1.130 | 1.35   | 0.928                  | 1.398   | 0.470  | 0.890                | 1.440   | 0.550  | 2.18   | 0.680      | 0.660      | 1.760     | 15.540   | 1.790     | 11.700   | 1              |
| BP0CA1160A7** | 1.160 | 1.3    | 0.943                  | 1.340   | 0.397  | 0.910                | 1.397   | 0.486  | 2      | 0.719      | 0.704      | 1.727     | 4.750    | 1.820     | 4.275    | 1              |
| BP0FA1190A7** | 1.190 | 1.28   | 1.031                  | 1.387   | 0.356  | 0.990                | 1.440   | 0.450  | 1.96   | 0.760      | 0.740      | 1.740     | 18.000   | 1.780     | 16.290   | 1              |
| BP0CA1610A7** | 1.610 | 0.89   | 1.290                  | 2.006   | 0.716  | 1.270                | 2.050   | 0.780  | 1.74   | 1.040      | 1.020      | 2.500     | 9.000    | 2.570     | 6.260    | 1              |
| BP0EA1950A7** | 1.950 | 0.94   | 1.486                  | 2.573   | 1.087  | 1.440                | 2.640   | 1.200  | 1.46   | 1.190      | 1.160      | 3.140     | 9.000    | 3.220     | 7.500    | 1              |
| BP0EA1980A7** | 1.980 | 0.98   | 1.506                  | 2.629   | 1.123  | 1.470                | 2.680   | 1.210  | 1.43   | 1.210      | 1.170      | 3.270     | 9.000    | 3.370     | 7.620    | 1              |
| BP0EA2090A7** | 2.090 | 1.08   | 1.580                  | 2.759   | 1.179  | 1.450                | 2.840   | 1.390  | 1.33   | 1.280      | 1.230      | 3.400     | 9.000    | 3.600     | 7.920    | 1              |
| BP0BA2150A7** | 2.150 | 1.4    | 1.768                  | 2.548   | 0.780  | 1.750                | 2.579   | 0.829  | 1.8    | 1.344      | 0.000      | 3.305     | 9.000    | 0.000     | 0.000    | 1              |
| BP0BA2260A7** | 2.260 | 1.3    | 1.838                  | 2.642   | 0.804  | 1.820                | 2.673   | 0.854  | 1.9    | 1.397      | 0.000      | 3.444     | 9.000    | 0.000     | 0.000    | 1              |
| BP0BA2290A7** | 2.290 | 1.2    | 2.850                  | 2.751   | -0.099 | 1.866                | 2.715   | 0.849  | 1.8    | 1.433      | 0.000      | 3.548     | 9.000    | 0.000     | 0.000    | 1              |
| BP0EA2500A7** | 2.500 | 1.36   | 2.084                  | 3.003   | 0.919  | 2.020                | 3.210   | 1.190  | 2.38   | 1.690      | 1.640      | 3.710     | 9.000    | 3.800     | 7.500    | 1              |
| BP0EA2540A7** | 2.540 | 1.11   | 2.077                  | 3.161   | 1.084  | 2.020                | 3.210   | 1.190  | 1.88   | 1.700      | 1.640      | 3.800     | 8.300    | 3.900     | 7.800    | 1              |
| BP0EA2620A7** | 2.620 | 1.55   | 2.141                  | 3.169   | 1.028  | 2.090                | 3.280   | 1.190  | 2.21   | 1.740      | 1.680      | 3.910     | 7.800    | 3.960     | 7.700    | 1              |
| BP0EA3180A7** | 3.180 | 0.84   | 2.505                  | 4.016   | 1.510  | 2.450                | 4.140   | 1.690  | 1.67   | 1.810      | 1.750      | 5.250     | 18.430   | 5.460     | 15.500   | 1              |
| BP0BA3270A7** | 3.270 | 2.2    | 3.242                  | 3.314   | 0.071  | 3.156                | 3.381   | 0.225  | 2.3    | 2.334      | 2.219      | 4.337     | 9.000    | 4.580     | 9.000    | 1              |
| BP0BA3280A7** | 3.280 | 2.2    | 3.225                  | 3.340   | 0.116  | 3.150                | 3.412   | 0.262  | 2.2    | 2.361      | 2.246      | 4.376     | 9.000    | 4.700     | 9.000    | 1              |
| BP0EA3310A7** | 3.310 | 0.97   | 2.695                  | 4.107   | 1.412  | 2.620                | 4.190   | 1.570  | 1.85   | 1.910      | 1.860      | 5.220     | 19.050   | 5.410     | 15.940   | 1              |
| BP0BA3350A7** | 3.350 | 2.3    | 3.282                  | 3.429   | 0.146  | 3.208                | 3.506   | 0.299  | 2.3    | 2.386      | 2.267      | 4.480     | 9.000    | 4.580     | 9.000    | 1              |
| BP0EA3430A7** | 3.430 | 0.83   | 2.683                  | 4.370   | 1.687  | 2.640                | 4.460   | 1.820  | 1.8    | 1.950      | 1.890      | 5.590     | 20.000   | 5.830     | 16.000   | 1              |
| BP0AA3580A7** | 3.580 | 1.2    | 2.972                  | 4.304   | 1.332  | 2.943                | 4.351   | 1.408  | 1.6    | 2.068      | 0.000      | 5.292     | 9.000    | 6.300     | 9.000    | 1              |
| BP0BA3630A7** | 3.630 | 2.1    | 3.513                  | 3.746   | 0.233  | 3.438                | 3.829   | 0.392  | 2.2    | 2.594      | 2.460      | 4.884     | 9.000    | 5.039     | 9.000    | 1              |
| BP0AA3700A7** | 3.700 | 1.1    | 3.046                  | 4.481   | 1.435  | 3.020                | 4.533   | 1.513  | 1.8    | 2.152      | 0.000      | 5.500     | 9.000    | 6.300     | 9.000    | 1              |
| BP0BA3750A7** | 3.750 | 2      | 3.657                  | 3.835   | 0.178  | 3.588                | 3.918   | 0.330  | 2.1    | 2.694      | 2.558      | 5.097     | 9.000    | 5.241     | 9.000    | 1              |
| BP0AA3790A7** | 3.790 | 1      | 3.200                  | 4.589   | 1.389  | 3.150                | 4.646   | 1.496  | 2.1    | 2.199      | 0.000      | 5.661     | 9.000    | 6.060     | 9.000    | 1              |
| BP0BA3900A7** | 3.900 | 2      | 3.847                  | 3.960   | 0.112  | 3.755                | 4.058   | 0.304  | 2.2    | 2.735      | 2.600      | 5.229     | 9.000    | 6.000     | 9.000    | 1              |
| BP0EA4260A7** | 4.260 | 1.3    | 3.389                  | 5.422   | 2.032  | 3.325                | 5.462   | 2.136  | 2      | 2.621      | 2.261      | 6.920     | 9.000    | 0.000     | 0.000    | 1              |
| BP0EA4400A7** | 4.400 | 1.1    | 3.456                  | 5.627   | 2.171  | 3.420                | 5.670   | 2.250  | 1.8    | 2.699      | 2.613      | 7.109     | 9.000    | 0.000     | 0.000    | 1              |
| BP0EA4440A7** | 4.440 | 1.1    | 3.554                  | 5.513   | 1.959  | 3.490                | 5.660   | 2.170  | 1.78   | 2.890      | 2.790      | 7.060     | 13.800   | 7.390     | 9.260    | 1              |
| BP0EA4583A7** | 4.583 | 1.1    | 3.542                  | 5.932   | 2.390  | 3.521                | 5.979   | 2.459  | 1.6    | 2.770      | 2.667      | 7.400     | 9.000    | 0.000     | 0.000    | 1              |
| BP0EA4600A7** | 4.600 | 1.14   | 3.806                  | 5.696   | 1.890  | 3.660                | 5.780   | 2.120  | 1.79   | 2.990      | 2.900      | 7.150     | 9.680    | 7.500     | 9.550    | 1              |
| BP0EA4680A7** | 4.680 | 1.18   | 3.743                  | 5.776   | 2.033  | 3.700                | 5.930   | 2.230  | 1.77   | 3.050      | 2.960      | 7.370     | 9.860    | 7.730     | 8.400    | 1              |
| BP0EA2055A7** | 2.055 | 1.80   | 1.944                  | 2.180   | 0.237  | 1.902                | 2.223   | 0.321  | 2.10   | 1.518      | 1.492      | 2.770     | 9.000    | 2.817     | 8.000    | 1              |
| BP0EA2135A7** | 2.135 | 1.80   | 2.002                  | 2.266   | 0.263  | 1.961                | 2.325   | 0.363  | 2.20   | 1.561      | 1.529      | 2.841     | 9.000    | 2.882     | 8.000    | 1              |
| BP0EA2000A7** | 2.000 | 1.80   | 1.878                  | 2.121   | 0.243  | 1.838                | 2.180   | 0.343  | 2.20   | 1.480      | 1.454      | 2.675     | 9.000    | 2.729     | 8.000    | 1              |
| BP0EA2510A7** | 2.510 | 1.60   | 2.245                  | 2.774   | 0.529  | 2.209                | 2.832   | 0.623  | 2.10   | 1.822      | 1.796      | 3.366     | 9.000    | 3.402     | 9.000    | 1              |
| BP0EA2568A7** | 2.568 | 1.90   | 2.286                  | 2.864   | 0.578  | 2.256                | 2.923   | 0.667  | 2.10   | 1.871      | 1.844      | 3.485     | 10.000   | 3.521     | 9.000    | 1              |
| BP0EA2423A7** | 2.423 | 1.60   | 2.168                  | 2.646   | 0.478  | 2.138                | 2.746   | 0.609  | 2.30   | 1.758      | 1.732      | 3.290     | 9.000    | 3.325     | 9.000    | 1              |
| BP0EA3123A7** | 3.123 | 1.50   | 2.847                  | 3.430   | 0.584  | 2.799                | 3.485   | 0.685  | 2.20   | 2.319      | 2.288      | 4.153     | 12.000   | 4.200     | 9.000    | 1              |
| BP0EA3284A7** | 3.284 | 1.50   | 3.019                  | 3.586   | 0.567  | 2.972                | 3.629   | 0.657  | 2.10   | 2.447      | 2.292      | 4.324     | 11.500   | 5.091     | 9.000    | 1              |
| BP0EA3060A7** | 3.060 | 1.60   | 2.783                  | 3.340   | 0.558  | 2.741                | 3.420   | 0.680  | 2.10   | 2.261      | 2.223      | 4.099     | 11.000   | 4.140     | 10.200   | 1              |
| BP0EA3720A7** | 3.720 | 2.00   | 3.408                  | 3.981   | 0.573  | 3.319                | 4.169   | 0.850  | 2.50   | 2.661      | 2.575      | 5.051     | 12.500   | 5.098     | 9.000    | 1              |
| BP0EA3827A7** | 3.827 | 2.10   | 3.508                  | 4.169   | 0.661  | 3.408                | 4.297   | 0.889  | 2.40   | 2.726      | 2.640      | 5.180     | 14.000   | 5.222     | 9.000    | 1              |
| BP0EA3597A7** | 3.597 | 1.90   | 3.325                  | 3.923   | 0.597  | 3.237                | 3.998   | 0.760  | 2.40   | 2.621      | 2.538      | 4.896     | 10.000   | 4.930     | 9.000    | 1              |
| BP0EA4550A7** | 4.550 | 1.70   | 4.052                  | 5.071   | 1.019  | 3.922                | 5.160   | 1.239  | 2.00   | 3.196      | 3.084      | 6.278     | 15.500   | 6.302     | 11.000   | 1              |
| BP0EA4649A7** | 4.649 | 1.80   | 4.371                  | 5.285   | 0.914  | 4.016                | 5.381   | 1.365  | 2.70   | 3.259      | 3.159      | 6.497     | 12.000   | 6.596     | 11.000   | 1              |
| BP0EA4363A7** | 4.363 | 1.60   | 3.933                  | 4.847   | 0.914  | 3.863                | 4.927   | 1.064  | 2.20   | 3.121      | 3.009      | 6.019     | 13.000   | 6.072     | 10.500   | 1              |

Click on part number to see full specifications

\*\*Packaging: 00 = waffle pack, TR = 1000pcs T&R, TR\250 = 250pcs T&R

# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

### MECHANICAL DIMENSIONS:

inches (mm)

| Case Size |      | Length                        | Width                        | Height                          |
|-----------|------|-------------------------------|------------------------------|---------------------------------|
| A         | 2616 | 0.259±0.010<br>(6.579±0.254)  | 0.157±0.010<br>(3.975±0.254) | Varies - see part specification |
| B         | 3116 | 0.306±0.010<br>(7.785±0.254)  | 0.156±0.010<br>(3.975±0.254) | Varies - see part specification |
| C         | 3416 | 0.342±0.010<br>(8.674±0.254)  | 0.157±0.010<br>(3.975±0.254) | Varies - see part specification |
| D         | 4016 | 0.401±0.010<br>(10.198±0.254) | 0.156±0.010<br>(3.975±0.254) | Varies - see part specification |
| E         | 4617 | 0.460±0.010<br>(11.684±0.254) | 0.170±0.010<br>(4.318±0.254) | Varies - see part specification |
| E1        | 4617 | 0.460±0.010<br>(11.684±0.254) | 0.174±0.010<br>(4.419±0.254) | Varies - see part specification |
| E2        | 4614 | 0.460±0.010<br>(11.684±0.254) | 0.144±0.010<br>(3.657±0.254) | Varies - see part specification |
| F         | 5021 | 0.512±0.010<br>(12.992±0.254) | 0.207±0.010<br>(5.245±0.254) | Varies - see part specification |
| I         | 6025 | .600±0.010<br>(15.24±0.254)   | 0.250±0.010<br>(6.35±0.254)  | Varies - see part specification |

### BP01A0110A7\*\*

### ELECTRICAL SPECIFICATIONS

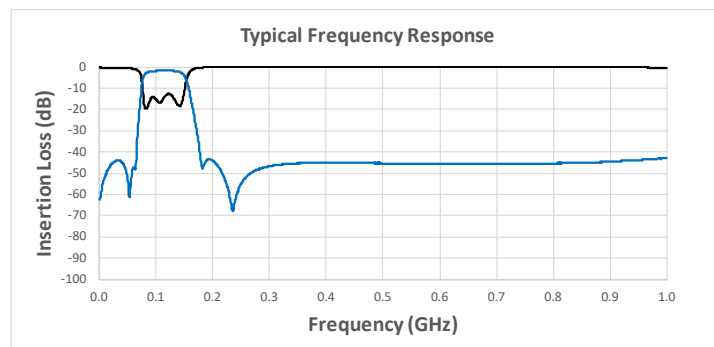
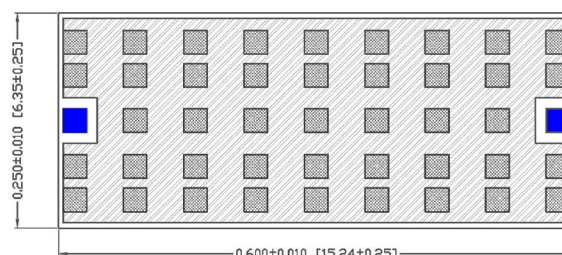
|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.110     |           | 1.7 | dB Fc Typ |
|           | 0.088     | 0.138     | 5.0 | dB Max    |
|           | 0.088     | 0.138     | 2.2 | dB Typ    |
|           | 0.092     | 0.135     | 1.5 | dB Ripple |
| Rejection | DC        | 0.063     | 30  | dB Min    |
|           | 0.181     | 0.950     | 30  | dB Min    |
|           | DC        | 0.063     | 40  | dB Min    |
|           | 0.187     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

### DIMENSIONS – CASE SIZE I

Bottom View

inches (mm)



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

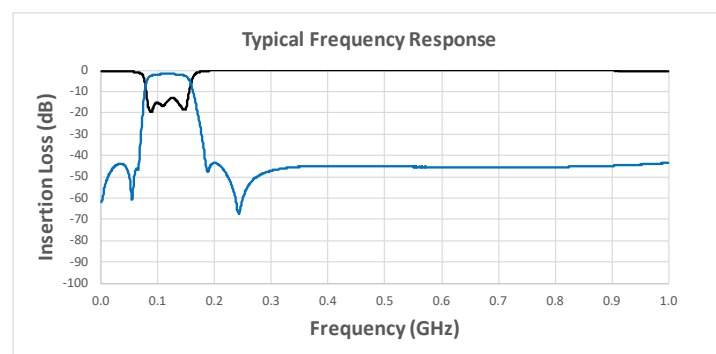
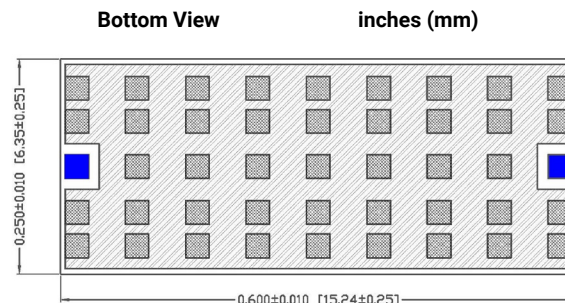
### BP01A0115A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.115     |           | 1.7 | dB Fc Typ |
|           | 0.090     | 0.142     | 5.0 | dB Max    |
|           | 0.090     | 0.142     | 2.4 | dB Typ    |
|           | 0.094     | 0.138     | 1.5 | dB Ripple |
| Rejection | DC        | 0.064     | 30  | dB Min    |
|           | 0.187     | 0.950     | 30  | dB Min    |
|           | DC        | 0.064     | 40  | dB Min    |
|           | 0.192     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE I



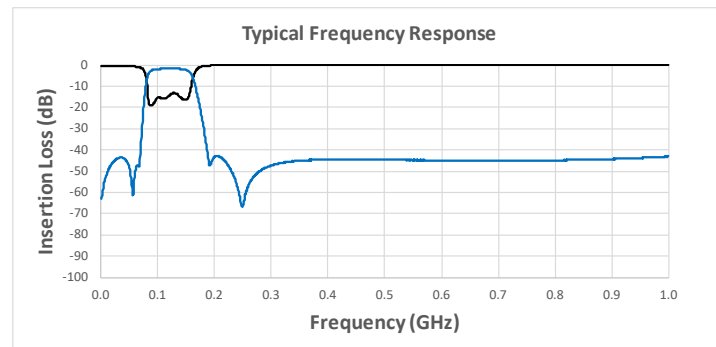
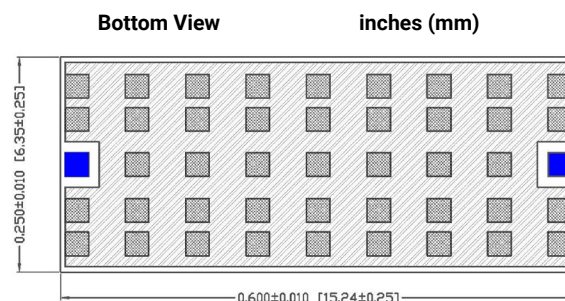
### BP01A0120A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.120     |           | 1.7 | dB Fc Typ |
|           | 0.092     | 0.146     | 5.0 | dB Max    |
|           | 0.092     | 0.146     | 2.5 | dB Typ    |
|           | 0.095     | 0.143     | 1.5 | dB Ripple |
| Rejection | DC        | 0.066     | 30  | dB Min    |
|           | 0.191     | 0.950     | 30  | dB Min    |
|           | DC        | 0.066     | 40  | dB Min    |
|           | 0.197     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE I



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

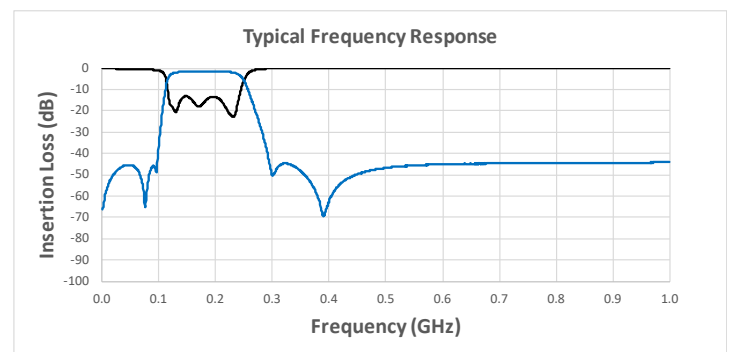
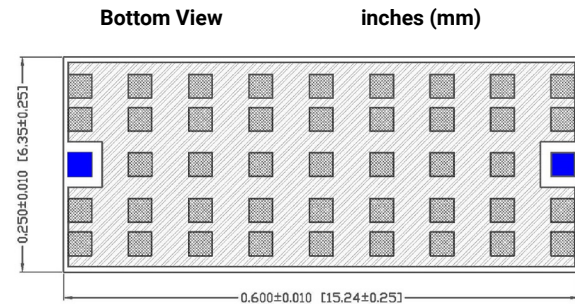
### BP01A0170A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.170     |           | 1.4 | dB Fc Typ |
|           | 0.128     | 0.228     | 5.0 | dB Max    |
|           | 0.128     | 0.228     | 2   | dB Typ    |
|           | 0.132     | 0.224     | 1.5 | dB Ripple |
| Rejection | DC        | 0.093     | 30  | dB Min    |
|           | 0.297     | 0.950     | 30  | dB Min    |
|           | DC        | 0.093     | 40  | dB Min    |
|           | 0.307     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE I



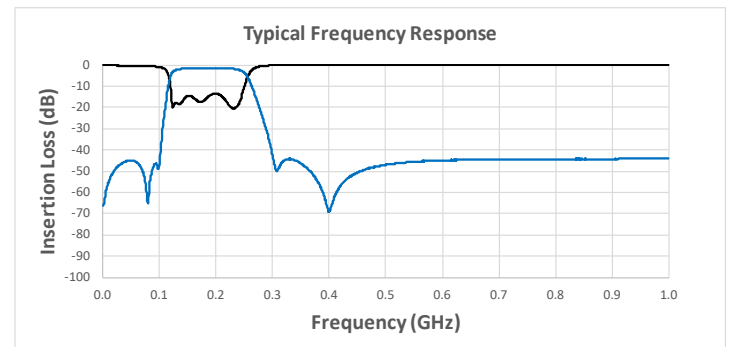
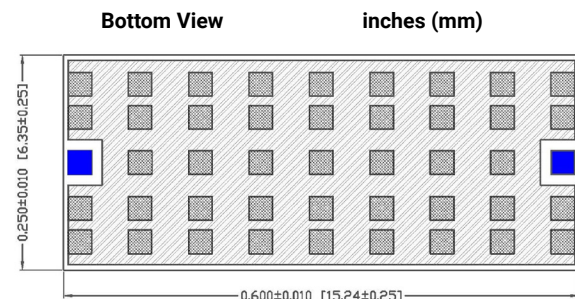
### BP01A0175A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.175     |           | 1.4 | dB Fc Typ |
|           | 0.132     | 0.235     | 5.0 | dB Max    |
|           | 0.132     | 0.235     | 2.3 | dB Typ    |
|           | 0.135     | 0.231     | 1.5 | dB Ripple |
| Rejection | DC        | 0.096     | 30  | dB Min    |
|           | 0.304     | 0.950     | 30  | dB Min    |
|           | DC        | 0.096     | 40  | dB Min    |
|           | 0.314     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE I



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

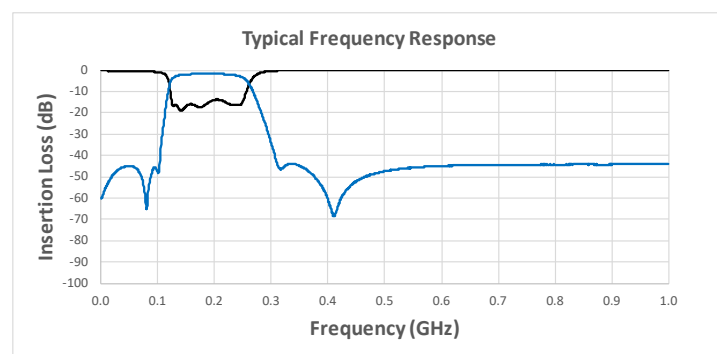
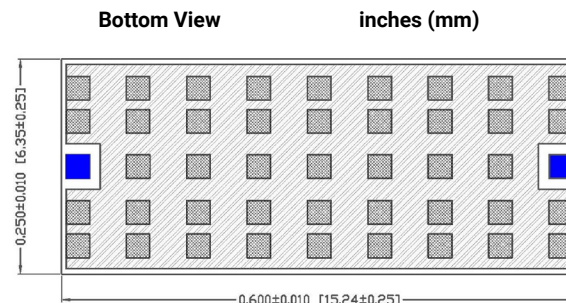
### BP0IA0180A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.180     |           | 1.6 | dB Fc Typ |
|           | 0.137     | 0.234     | 5.0 | dB Max    |
|           | 0.137     | 0.234     | 2.2 | dB Typ    |
|           | 0.143     | 0.228     | 1.5 | dB Ripple |
| Rejection | DC        | 0.099     | 30  | dB Min    |
|           | 0.312     | 0.950     | 30  | dB Min    |
|           | DC        | 0.099     | 40  | dB Min    |
|           | 0.322     | 0.950     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE I



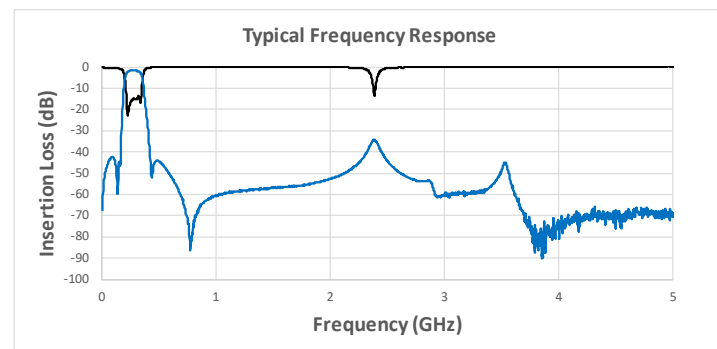
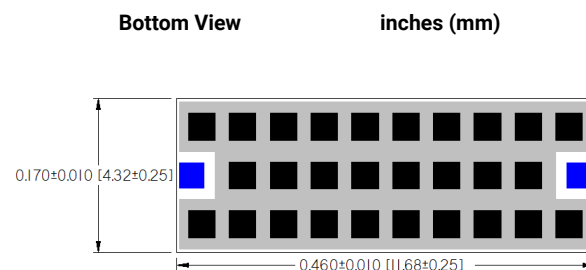
### BP0EA0270A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.270     |           | 1.6 | dB Fc Typ |
|           | 0.224     | 0.325     | 5.0 | dB Max    |
|           | 0.224     | 0.325     | 2.4 | dB Typ    |
|           | 0.231     | 0.316     | 1.5 | dB Ripple |
| Rejection | DC        | 0.155     | 30  | dB Min    |
|           | 0.424     | 2.000     | 30  | dB Min    |
|           | DC        | 0.155     | 40  | dB Min    |
|           | 0.444     | 2.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

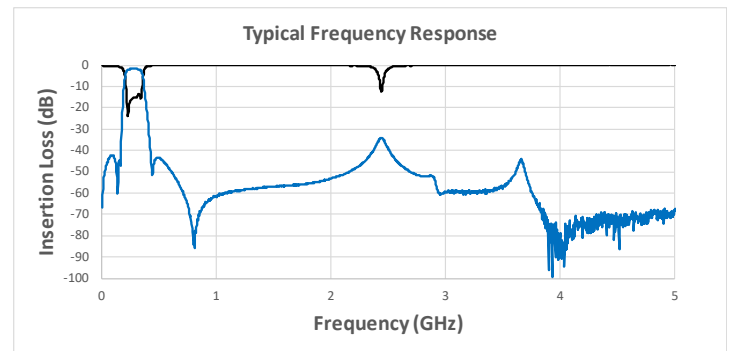
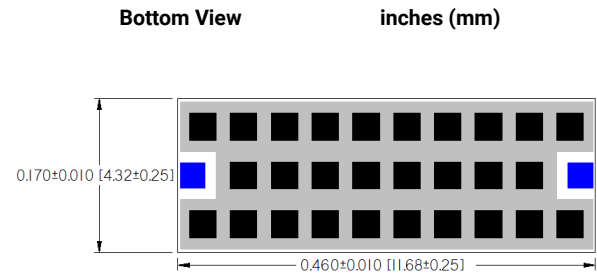
### BP0EA0280A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.280     |           | 1.7 | dB Fc Typ |
|           | 0.227     | 0.327     | 5.0 | dB Max    |
|           | 0.227     | 0.327     | 2.2 | dB Typ    |
|           | 0.234     | 0.321     | 1.5 | dB Ripple |
| Rejection | DC        | 0.158     | 30  | dB Min    |
|           | 0.431     | 2.000     | 30  | dB Min    |
|           | DC        | 0.158     | 40  | dB Min    |
|           | 0.447     | 2.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



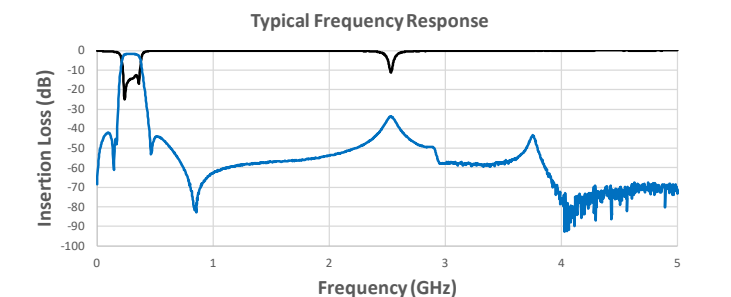
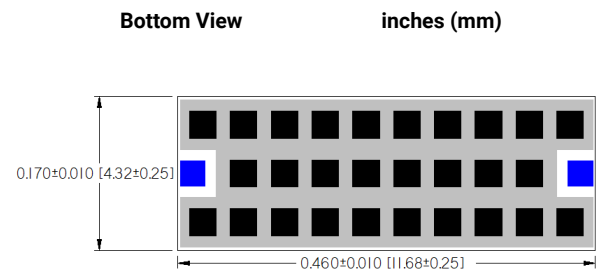
### BP0EA0290A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.290     |           | 1.7 | dB Fc Typ |
|           | 0.241     | 0.345     | 5.0 | dB Max    |
|           | 0.241     | 0.345     | 2.3 | dB Typ    |
|           | 0.244     | 0.339     | 1.5 | dB Ripple |
| Rejection | DC        | 0.164     | 30  | dB Min    |
|           | 0.454     | 2.000     | 30  | dB Min    |
|           | DC        | 0.164     | 40  | dB Min    |
|           | 0.473     | 2.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

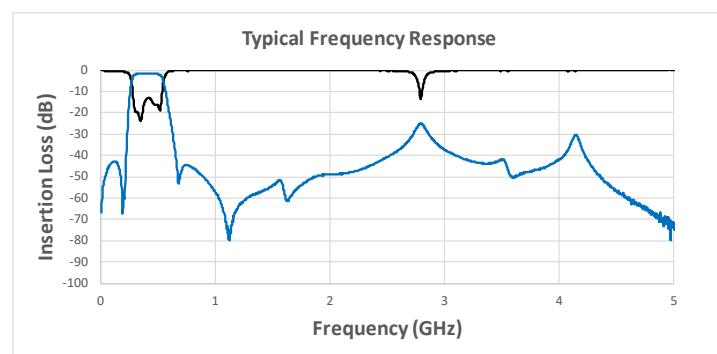
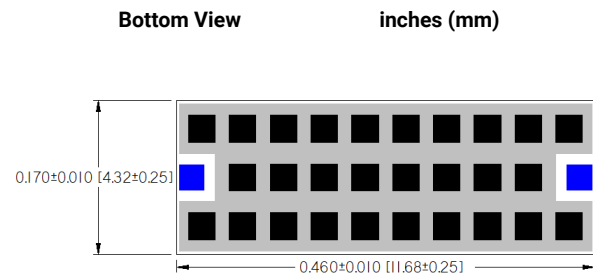
### BP0EA0400A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.400     |           | 1.3 | dB Fc Typ |
|           | 0.296     | 0.500     | 5.0 | dB Max    |
|           | 0.296     | 0.500     | 1.9 | dB Typ    |
|           | 0.303     | 0.494     | 1.5 | dB Ripple |
| Rejection | DC        | 0.206     | 30  | dB Min    |
|           | 0.660     | 2.100     | 30  | dB Min    |
|           | DC        | 0.206     | 40  | dB Min    |
|           | 0.687     | 2.100     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



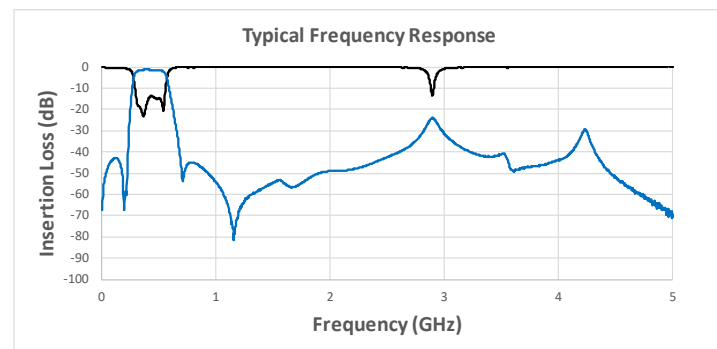
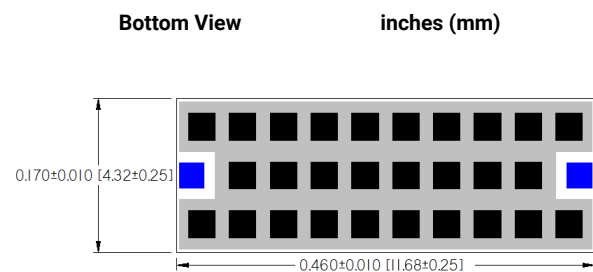
### BP0EA0420A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.420     |           | 1.3 | dB Fc Typ |
|           | 0.309     | 0.520     | 5.0 | dB Max    |
|           | 0.309     | 0.520     | 2   | dB Typ    |
|           | 0.316     | 0.514     | 1.5 | dB Ripple |
| Rejection | DC        | 0.215     | 30  | dB Min    |
|           | 0.690     | 2.000     | 30  | dB Min    |
|           | DC        | 0.215     | 40  | dB Min    |
|           | 0.719     | 2.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

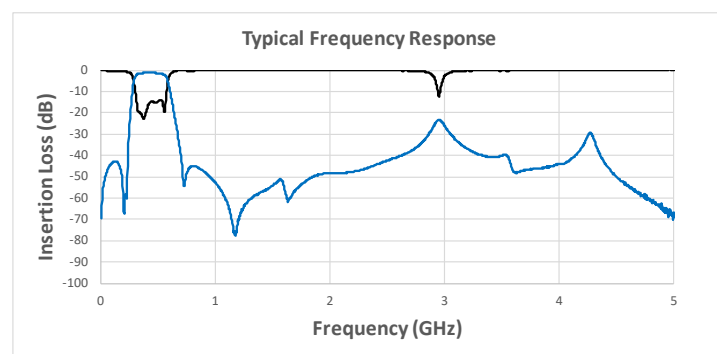
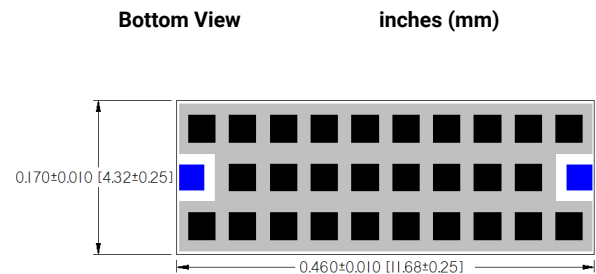
### BP0EA0430A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.430     |           | 1.3 | dB Fc Typ |
|           | 0.316     | 0.535     | 5.0 | dB Max    |
|           | 0.316     | 0.535     | 1.9 | dB Typ    |
|           | 0.323     | 0.529     | 1.5 | dB Ripple |
| Rejection | DC        | 0.221     | 30  | dB Min    |
|           | 0.706     | 2.000     | 30  | dB Min    |
|           | DC        | 0.221     | 40  | dB Min    |
|           | 0.736     | 2.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



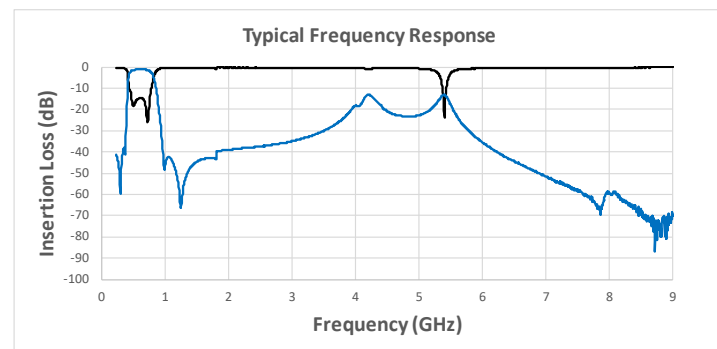
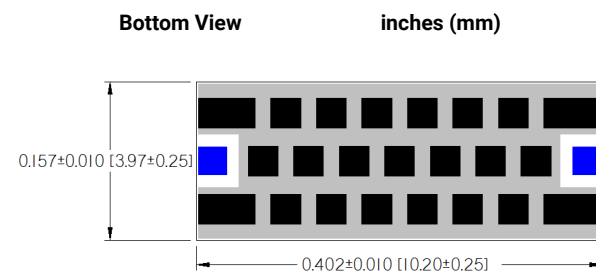
### BP0DA0585A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.585     |           | 1.3 | dB Fc Typ |
|           | 0.461     | 0.745     | 5.0 | dB Max    |
|           | 0.461     | 0.745     | 2.1 | dB Typ    |
|           | 0.472     | 0.735     | 1.5 | dB Ripple |
| Rejection | DC        | 0.000     | 30  | dB Min    |
|           | 0.985     | 0.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE D



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

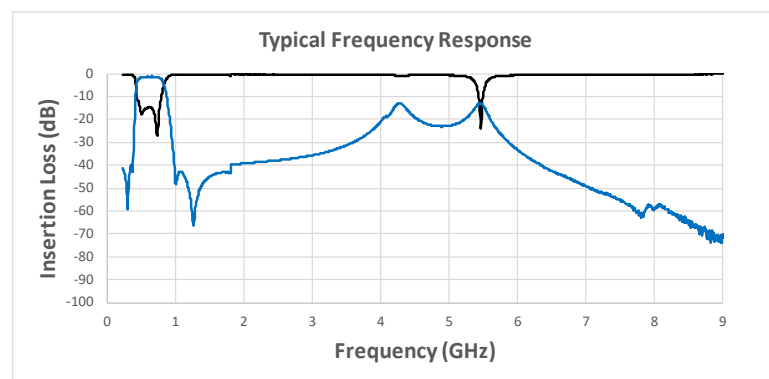
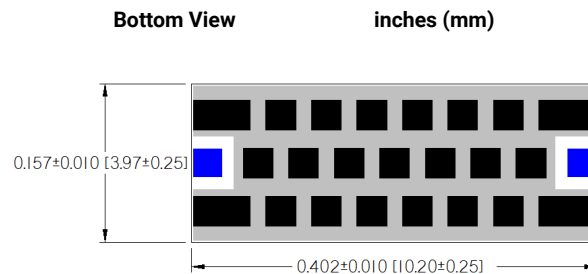
### BP0DA0595A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.595     |           | 1.3 | dB Fc Typ |
|           | 0.467     | 0.756     | 5.0 | dB Max    |
|           | 0.467     | 0.756     | 1.9 | dB Typ    |
|           | 0.478     | 0.745     | 1.5 | dB Ripple |
| Rejection | DC        | 0.000     | 30  | dB Min    |
|           | 1.002     | 0.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE D



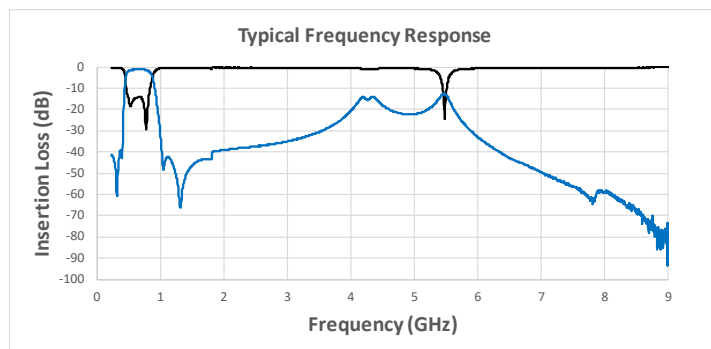
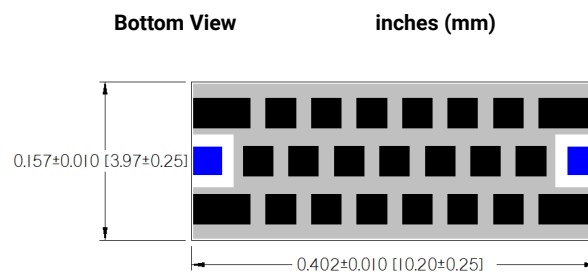
### BP0DA0650A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.650     |           | 1.3 | dB Fc Typ |
|           | 0.490     | 0.787     | 5.0 | dB Max    |
|           | 0.490     | 0.787     | 2   | dB Typ    |
|           | 0.485     | 0.776     | 1.5 | dB Ripple |
| Rejection | DC        | 0.000     | 30  | dB Min    |
|           | 1.030     | 0.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE D



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

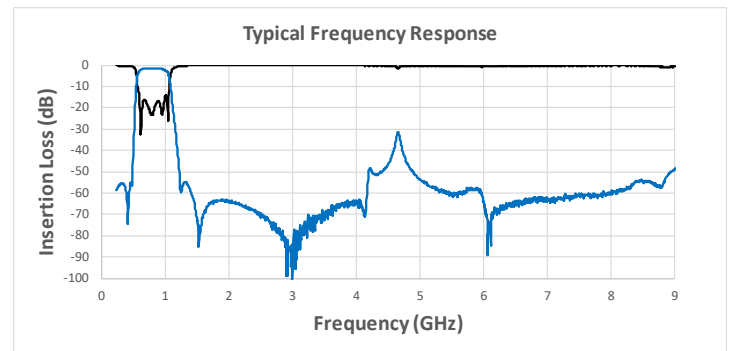
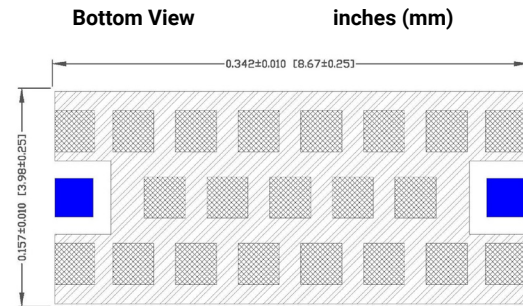
### BP0CA0770A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |      |           |
|-----------|-----------|-----------|------|-----------|
| Pass Band | 0.770     |           | 0.97 | dB Fc Typ |
|           | 0.620     | 0.970     | 5.0  | dB Max    |
|           | 0.620     | 0.970     | 1.97 | dB Typ    |
|           | 0.628     | 0.954     | 1.5  | dB Ripple |
| Rejection | DC        | 0.460     | 30   | dB Min    |
|           | 1.190     | 4.000     | 30   | dB Min    |
|           | DC        | 0.460     | 40   | dB Min    |
|           | 1.230     | 4.000     | 40   | dB Min    |
| Dimension | Thickness |           | 22   | Mils Max  |
| RF Power  | Power     |           | 1    | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



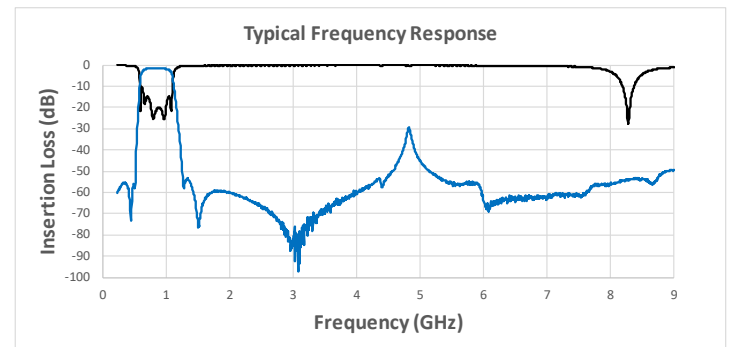
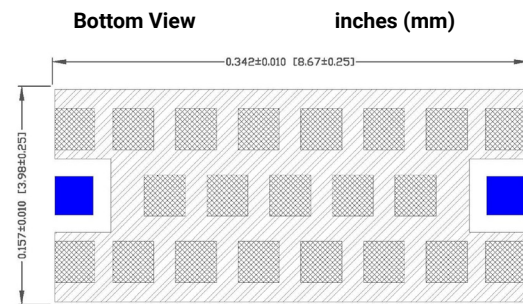
### BP0CA0810A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.810     |           | 1.3 | dB Fc Typ |
|           | 0.657     | 1.006     | 5.0 | dB Max    |
|           | 0.657     | 1.006     | 2   | dB Typ    |
|           | 0.668     | 0.985     | 1.5 | dB Ripple |
| Rejection | DC        | 0.500     | 30  | dB Min    |
|           | 1.256     | 4.000     | 30  | dB Min    |
|           | DC        | 0.500     | 40  | dB Min    |
|           | 1.290     | 4.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

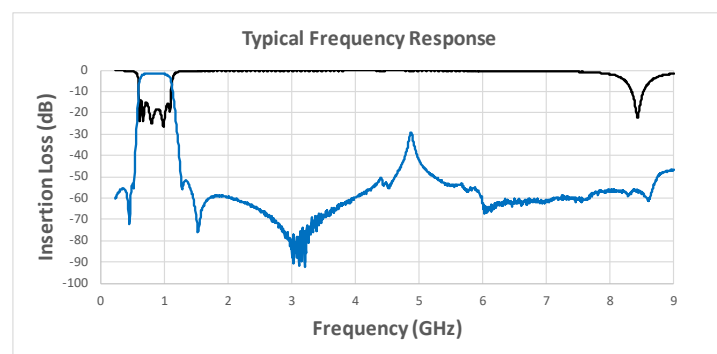
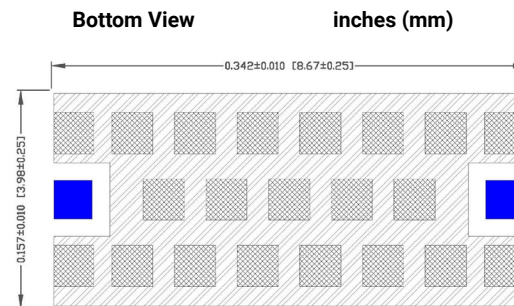
### BP0CA0825A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.825     |           | 1.3 | dB Fc Typ |
|           | 0.668     | 1.021     | 5.0 | dB Max    |
|           | 0.668     | 1.021     | 2   | dB Typ    |
|           | 0.680     | 0.985     | 1.5 | dB Ripple |
| Rejection | DC        | 0.504     | 30  | dB Min    |
|           | 1.261     | 4.000     | 30  | dB Min    |
|           | DC        | 0.504     | 40  | dB Min    |
|           | 1.296     | 4.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



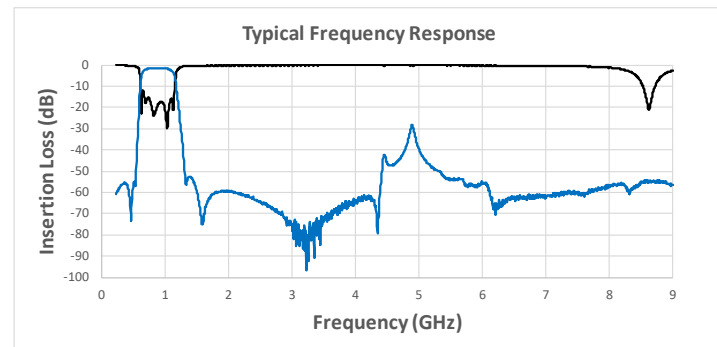
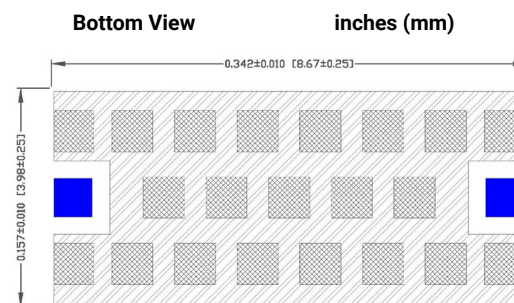
### BP0CA0855A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 0.855     |           | 1.4 | dB Fc Typ |
|           | 0.691     | 1.053     | 5.0 | dB Max    |
|           | 0.691     | 1.053     | 2   | dB Typ    |
|           | 0.708     | 1.032     | 1.5 | dB Ripple |
| Rejection | DC        | 0.526     | 30  | dB Min    |
|           | 1.314     | 3.800     | 30  | dB Min    |
|           | DC        | 0.526     | 40  | dB Min    |
|           | 1.347     | 3.800     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

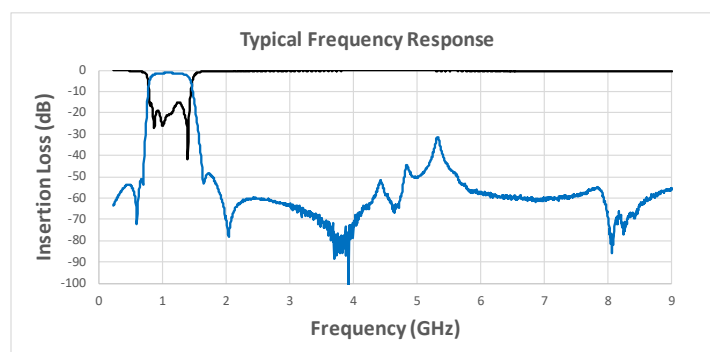
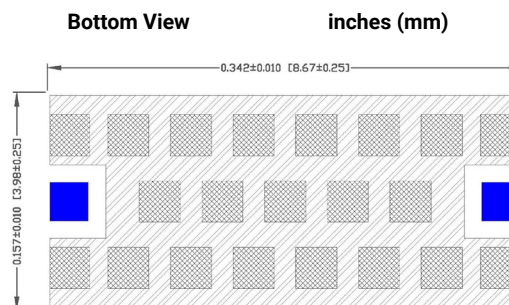
### BP0CA1070A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.070     |           | 1.1 | dB Fc Typ |
|           | 0.864     | 1.329     | 5.0 | dB Max    |
|           | 0.864     | 1.329     | 2.1 | dB Typ    |
|           | 0.887     | 1.313     | 1.5 | dB Ripple |
| Rejection | DC        | 0.672     | 30  | dB Min    |
|           | 1.647     | 4.000     | 30  | dB Min    |
|           | DC        | 0.672     | 40  | dB Min    |
|           | 1.682     | 4.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



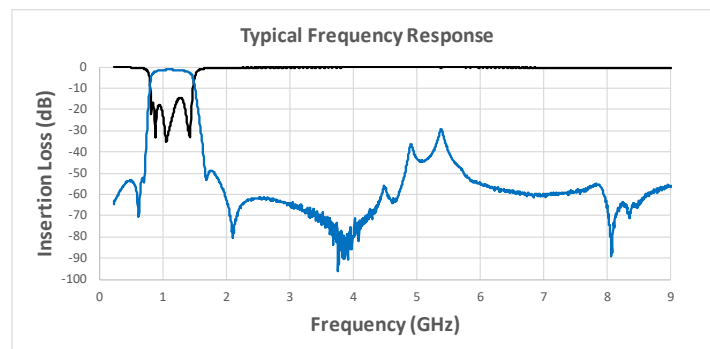
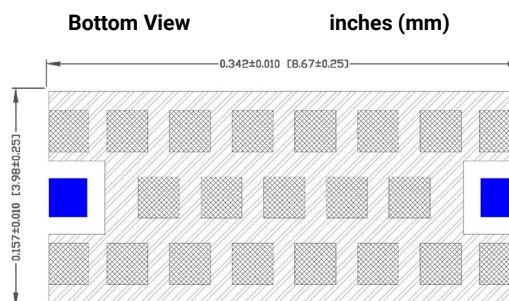
### BP0CA1090A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.090     |           | 1.3 | dB Fc Typ |
|           | 0.881     | 1.350     | 5.0 | dB Max    |
|           | 0.881     | 1.350     | 2.1 | dB Typ    |
|           | 0.898     | 1.329     | 1.5 | dB Ripple |
| Rejection | DC        | 0.683     | 30  | dB Min    |
|           | 1.676     | 4.275     | 30  | dB Min    |
|           | DC        | 0.683     | 40  | dB Min    |
|           | 1.716     | 4.275     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

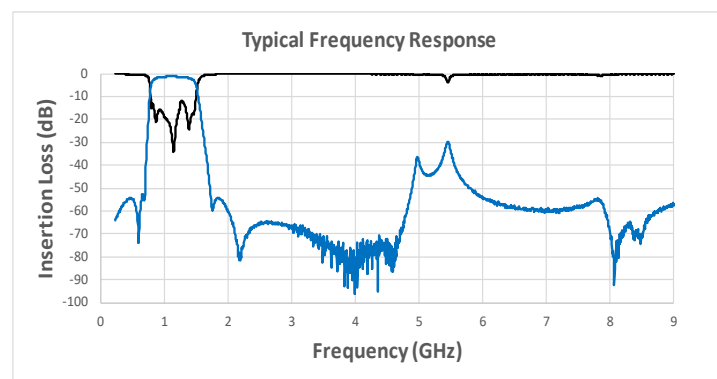
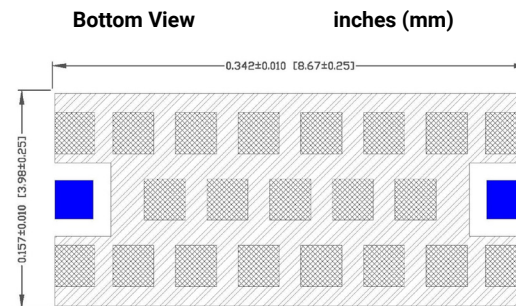
### BP0CA1100A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |      |           |
|-----------|-----------|-----------|------|-----------|
| Pass Band | 1.100     |           | 0.95 | dB Fc Typ |
|           | 0.860     | 1.390     | 5.0  | dB Max    |
|           | 0.860     | 1.390     | 1.62 | dB Typ    |
|           | 0.881     | 1.365     | 1.5  | dB Ripple |
| Rejection | DC        | 0.660     | 30   | dB Min    |
|           | 1.680     | 4.500     | 30   | dB Min    |
|           | DC        | 0.660     | 40   | dB Min    |
|           | 1.730     | 4.500     | 40   | dB Min    |
| Dimension | Thickness |           | 22   | Mils Max  |
| RF Power  | Power     |           | 1    | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



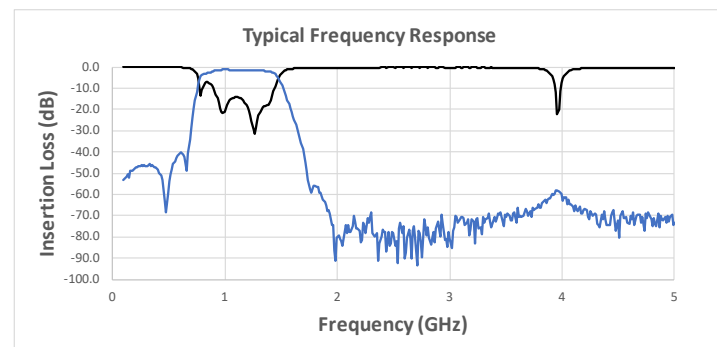
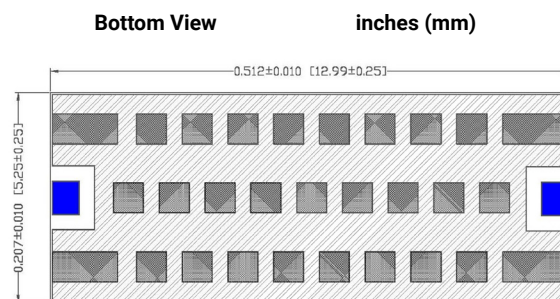
### BP0FA1100A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |      |           |
|-----------|-----------|-----------|------|-----------|
| Pass Band | 1.100     |           | 1.19 | dB Fc Typ |
|           | 0.870     | 1.390     | 5.0  | dB Max    |
|           | 0.870     | 1.390     | 1.97 | dB Typ    |
|           | 0.915     | 1.340     | 1.5  | dB Ripple |
| Rejection | DC        | 0.640     | 30   | dB Min    |
|           | 1.720     | 11.110    | 30   | dB Min    |
|           | DC        | 0.640     | 40   | dB Min    |
|           | 1.780     | 11.110    | 40   | dB Min    |
| Dimension | Thickness |           | 22   | Mils Max  |
| RF Power  | Power     |           | 1    | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE F



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

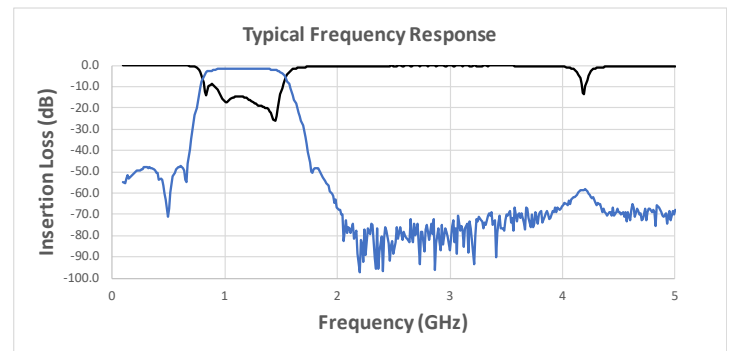
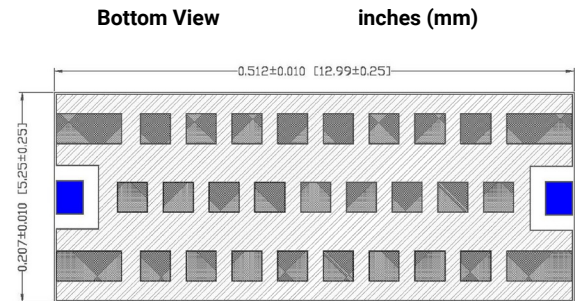
### BP0FA1130A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |      |           |
|-----------|-----------|-----------|------|-----------|
| Pass Band | 1.130     |           | 1.35 | dB Fc Typ |
|           | 0.890     | 1.440     | 5.0  | dB Max    |
|           | 0.890     | 1.440     | 2.18 | dB Typ    |
|           | 0.928     | 1.398     | 1.5  | dB Ripple |
| Rejection | DC        | 0.660     | 30   | dB Min    |
|           | 1.760     | 11.700    | 30   | dB Min    |
|           | DC        | 0.660     | 40   | dB Min    |
|           | 1.790     | 11.700    | 40   | dB Min    |
| Dimension | Thickness |           | 22   | Mils Max  |
| RF Power  | Power     |           | 1    | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE F



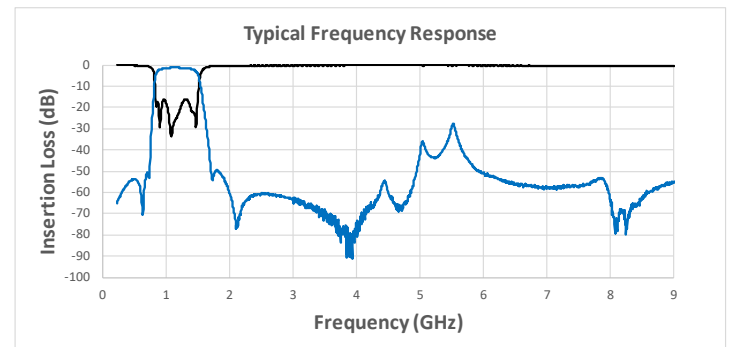
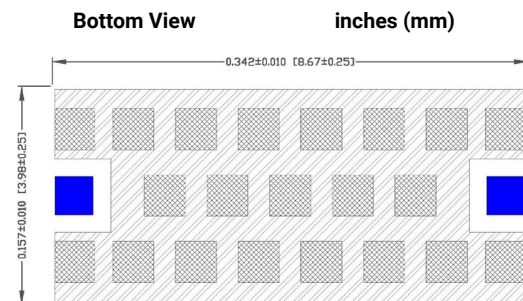
### BP0CA1160A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.160     |           | 1.3 | dB Fc Typ |
|           | 0.910     | 1.397     | 5.0 | dB Max    |
|           | 0.910     | 1.397     | 2   | dB Typ    |
|           | 0.943     | 1.340     | 1.5 | dB Ripple |
| Rejection | DC        | 0.704     | 30  | dB Min    |
|           | 1.727     | 4.275     | 30  | dB Min    |
|           | DC        | 0.704     | 40  | dB Min    |
|           | 1.820     | 4.275     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

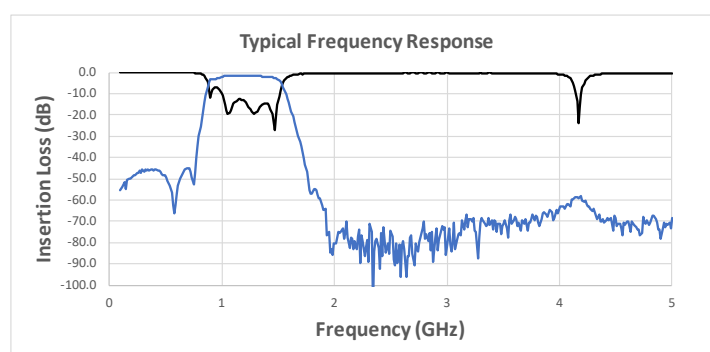
### BP0FA1190A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |      |           |
|-----------|-----------|-----------|------|-----------|
| Pass Band | 1.190     |           | 1.28 | dB Fc Typ |
|           | 0.990     | 1.440     | 5.0  | dB Max    |
|           | 0.990     | 1.440     | 1.96 | dB Typ    |
|           | 1.031     | 1.387     | 1.5  | dB Ripple |
| Rejection | DC        | 0.740     | 30   | dB Min    |
|           | 1.740     | 16.290    | 30   | dB Min    |
|           | DC        | 0.740     | 40   | dB Min    |
|           | 1.780     | 16.290    | 40   | dB Min    |
| Dimension | Thickness |           | 22   | Mils Max  |
| RF Power  | Power     |           | 1    | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE F



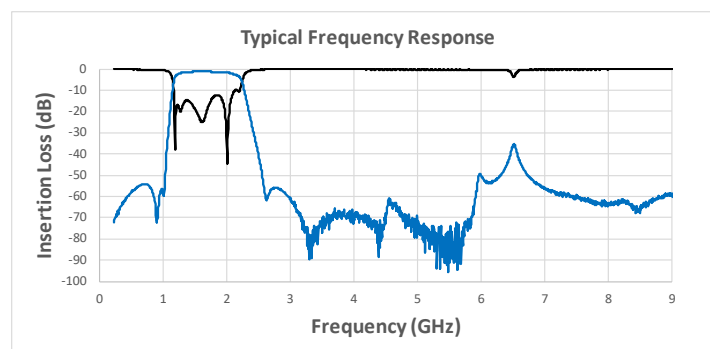
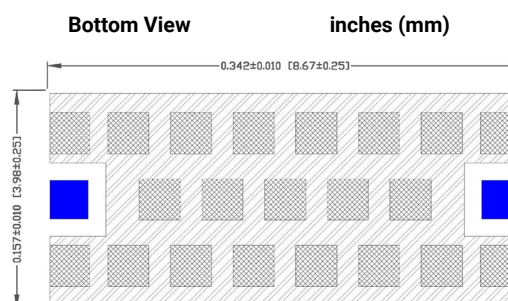
### BP0CA1610A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.609     |           | 0.9 | dB Fc Typ |
|           | 1.267     | 2.053     | 5.0 | dB Max    |
|           | 1.267     | 2.053     | 1.7 | dB Typ    |
|           | 1.290     | 2.006     | 1.5 | dB Ripple |
| Rejection | DC        | 1.027     | 30  | dB Min    |
|           | 2.540     | 9.000     | 30  | dB Min    |
|           | DC        | 1.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE C



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

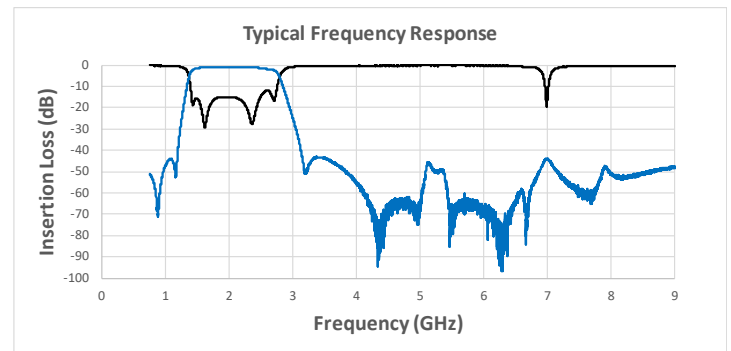
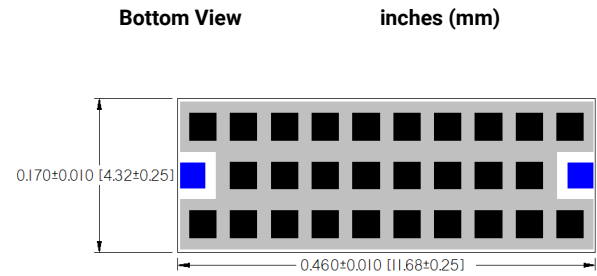
### BP0EA1950A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.950     |           | 0.9 | dB Fc Typ |
|           | 1.472     | 2.597     | 5.0 | dB Max    |
|           | 1.472     | 2.597     | 1.5 | dB Typ    |
|           | 1.486     | 2.573     | 1.5 | dB Ripple |
| Rejection | DC        | 1.169     | 30  | dB Min    |
|           | 3.198     | 15.000    | 30  | dB Min    |
|           | DC        | 1.135     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



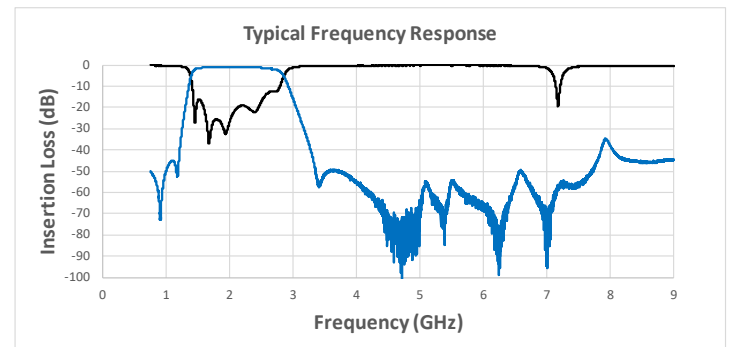
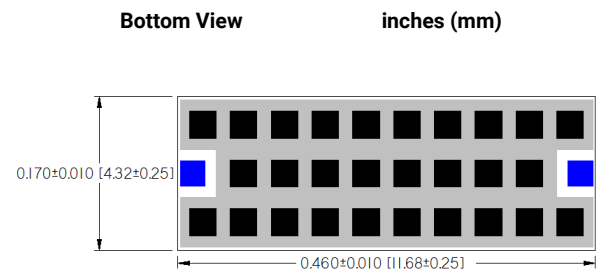
### BP0EA1980A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 1.980     |           | 1.0 | dB Fc Typ |
|           | 1.493     | 2.656     | 5.0 | dB Max    |
|           | 1.493     | 2.656     | 1.4 | dB Typ    |
|           | 1.506     | 2.629     | 1.5 | dB Ripple |
| Rejection | DC        | 1.188     | 30  | dB Min    |
|           | 3.326     | 15.000    | 30  | dB Min    |
|           | DC        | 1.153     | 40  | dB Min    |
|           | 3.438     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

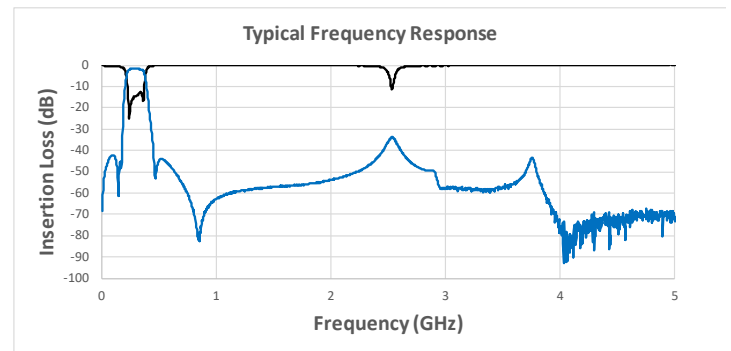
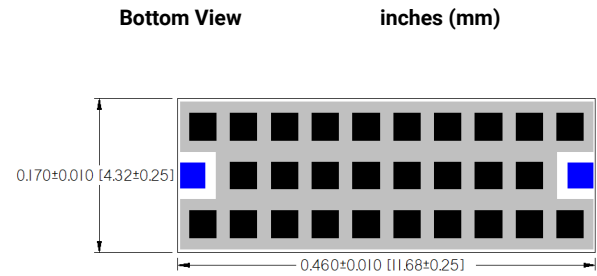
### BP0EA2090A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.090     |           | 1.1 | dB Fc Typ |
|           | 1.569     | 2.783     | 5.0 | dB Max    |
|           | 1.569     | 2.783     | 1.3 | dB Typ    |
|           | 1.580     | 2.759     | 1.5 | dB Ripple |
| Rejection | DC        | 1.250     | 30  | dB Min    |
|           | 3.466     | 15.000    | 30  | dB Min    |
|           | DC        | 1.211     | 40  | dB Min    |
|           | 3.577     | 6.413     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



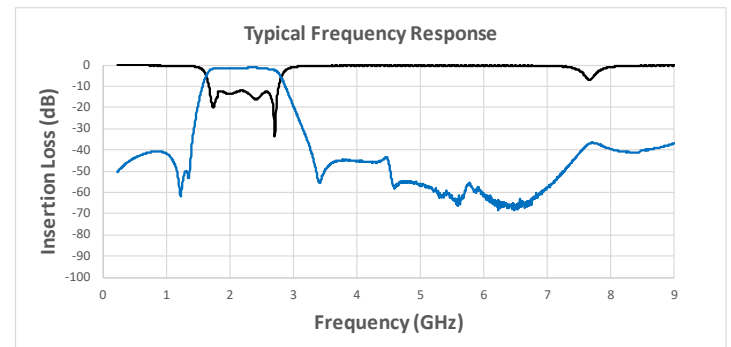
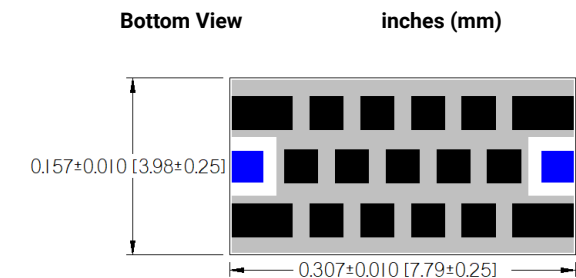
### BP0BA2150A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.260     |           | 1.3 | dB Fc Typ |
|           | 1.820     | 2.673     | 5.0 | dB Max    |
|           | 1.820     | 2.673     | 1.9 | dB Typ    |
|           | 1.838     | 2.642     | 1.5 | dB Ripple |
| Rejection | DC        | 1.397     | 30  | dB Min    |
|           | 3.444     | 9.000     | 30  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

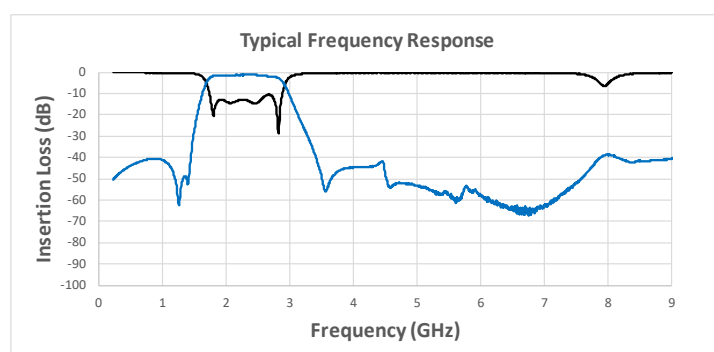
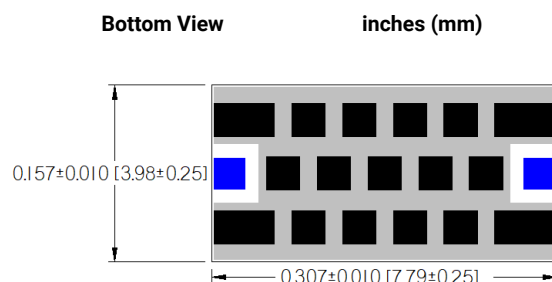
### BP0BA2260A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.203     |           | 1.3 | dB Fc Typ |
|           | 1.820     | 2.673     | 5.0 | dB Max    |
|           | 1.820     | 2.673     | 1.9 | dB Typ    |
|           | 1.838     | 2.642     | 1.5 | dB Ripple |
| Rejection | DC        | 1.397     | 30  | dB Min    |
|           | 3.444     | 9.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



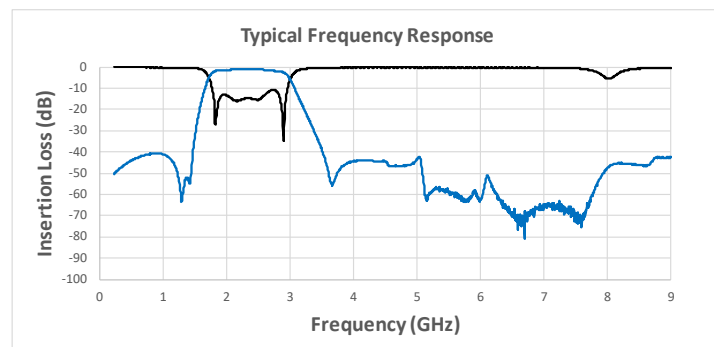
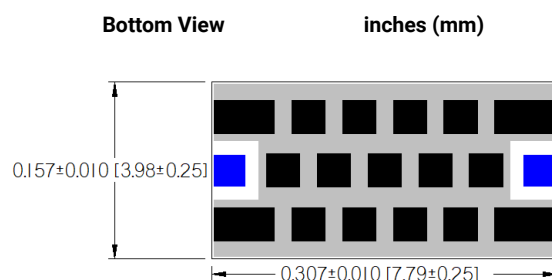
### BP0BA2290A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.290     |           | 1.2 | dB Fc Typ |
|           | 1.866     | 2.715     | 5.0 | dB Max    |
|           | 1.866     | 2.715     | 1.8 | dB Typ    |
|           | 1.884     | 2.751     | 1.5 | dB Ripple |
| Rejection | DC        | 1.433     | 30  | dB Min    |
|           | 3.548     | 9.000     | 30  | dB Min    |
| Dimension | Thickness |           | 40  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

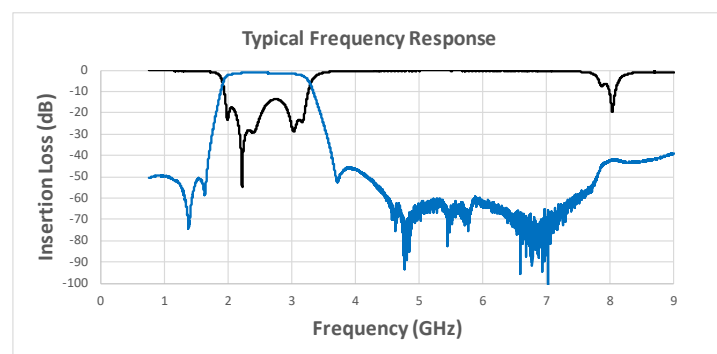
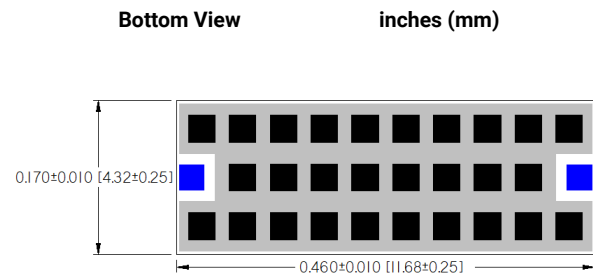
### BP0EA2500A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.500     |           | 1.4 | dB Fc Typ |
|           | 2.064     | 3.034     | 5.0 | dB Max    |
|           | 2.064     | 3.034     | 2.4 | dB Typ    |
|           | 2.084     | 3.003     | 1.5 | dB Ripple |
| Rejection | DC        | 0.680     | 30  | dB Min    |
|           | 3.722     | 15.000    | 30  | dB Min    |
|           | DC        | 0.660     | 40  | dB Min    |
|           | 3.807     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



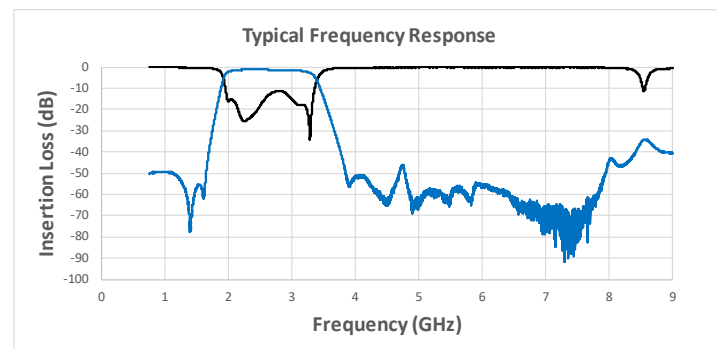
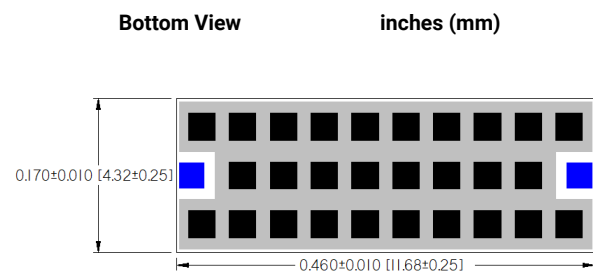
### BP0EA2540A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.540     |           | 1.1 | dB Fc Typ |
|           | 2.058     | 3.140     | 5.0 | dB Max    |
|           | 2.058     | 3.140     | 1.9 | dB Typ    |
|           | 2.077     | 3.161     | 1.5 | dB Ripple |
| Rejection | DC        | 1.658     | 30  | dB Min    |
|           | 3.851     | 6.150     | 30  | dB Min    |
|           | DC        | 1.604     | 40  | dB Min    |
|           | 3.956     | 7.600     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

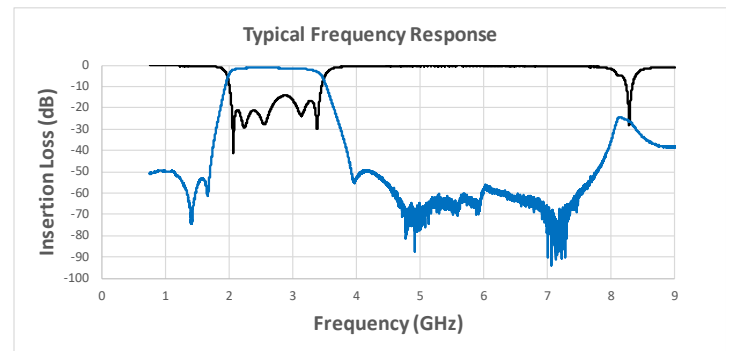
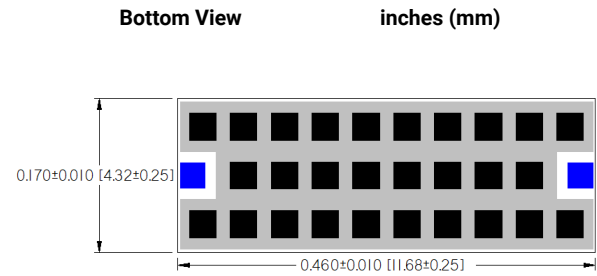
### BP0EA2620A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 2.620     |           | 1.6 | dB Fc Typ |
|           | 2.122     | 3.212     | 5.0 | dB Max    |
|           | 2.122     | 3.212     | 2.2 | dB Typ    |
|           | 2.141     | 3.169     | 1.5 | dB Ripple |
| Rejection | DC        | 1.704     | 30  | dB Min    |
|           | 3.938     | 15.000    | 30  | dB Min    |
|           | DC        | 1.650     | 40  | dB Min    |
|           | 4.036     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



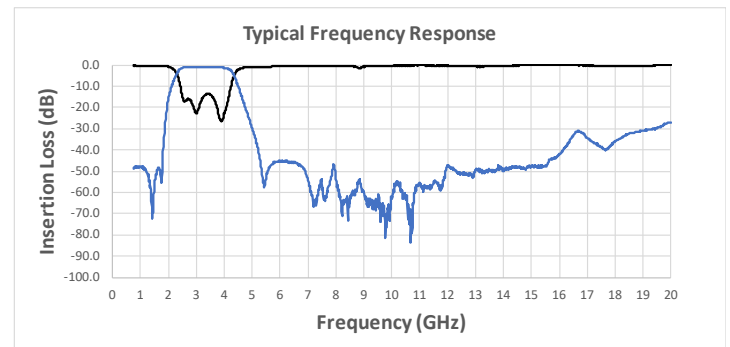
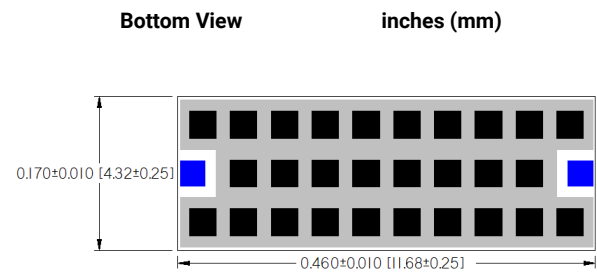
### BP0EA3180A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.180     |           | 0.8 | dB Fc Typ |
|           | 2.468     | 4.050     | 5.0 | dB Max    |
|           | 2.468     | 4.050     | 1.7 | dB Typ    |
|           | 2.505     | 4.016     | 1.5 | dB Ripple |
| Rejection | DC        | 1.776     | 30  | dB Min    |
|           | 5.272     | 8.000     | 30  | dB Min    |
|           | DC        | 1.719     | 40  | dB Min    |
|           | 3.600     | 15.200    | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

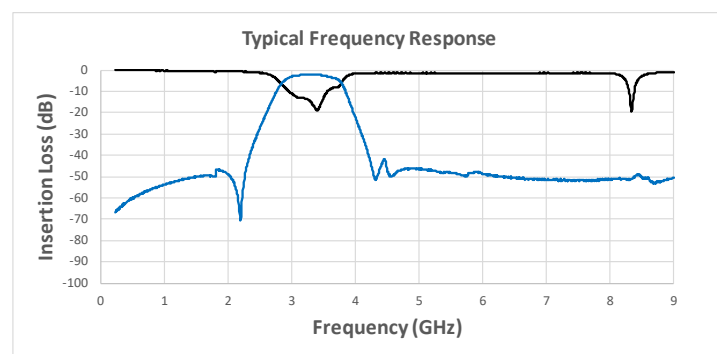
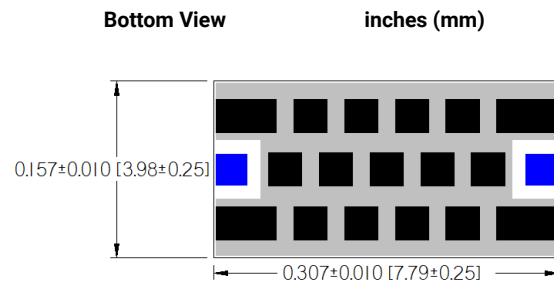
### BP0BA3270A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.270     |           | 2.2 | dB Fc Typ |
|           | 3.156     | 3.381     | 5.0 | dB Max    |
|           | 3.156     | 3.381     | 2.3 | dB Typ    |
|           | 3.242     | 3.314     | 1.5 | dB Ripple |
| Rejection | DC        | 2.334     | 30  | dB Min    |
|           | 4.337     | 9.000     | 30  | dB Min    |
|           | DC        | 2.219     | 40  | dB Min    |
|           | 4.457     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



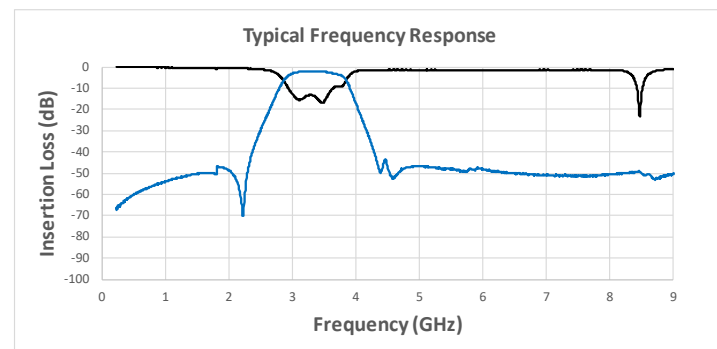
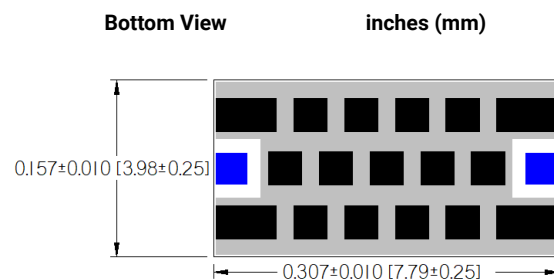
### BP0BA3280A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.282     |           | 2.2 | dB Fc Typ |
|           | 3.150     | 3.412     | 5.0 | dB Max    |
|           | 3.150     | 3.412     | 2.2 | dB Typ    |
|           | 3.225     | 3.340     | 1.5 | dB Ripple |
| Rejection | DC        | 2.361     | 30  | dB Min    |
|           | 4.376     | 9.000     | 30  | dB Min    |
|           | DC        | 2.246     | 40  | dB Min    |
|           | 4.503     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

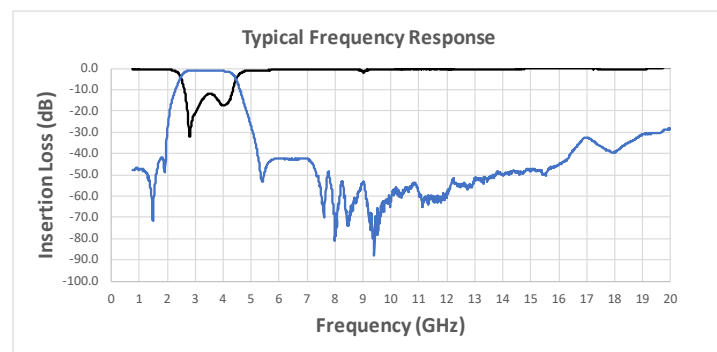
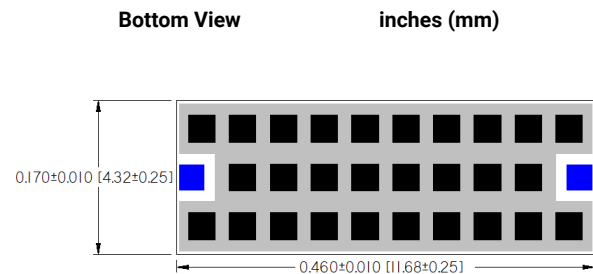
### BP0EA3310A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.310     |           | 1.0 | dB Fc Typ |
|           | 2.670     | 4.057     | 5.0 | dB Max    |
|           | 2.670     | 4.057     | 1.9 | dB Typ    |
|           | 2.695     | 4.107     | 1.5 | dB Ripple |
| Rejection | DC        | 1.901     | 30  | dB Min    |
|           | 5.322     | 15.675    | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



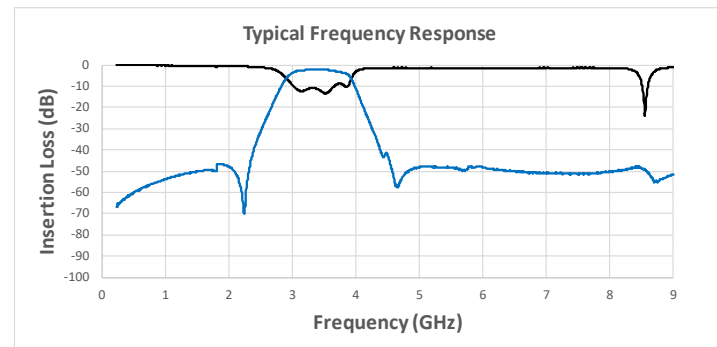
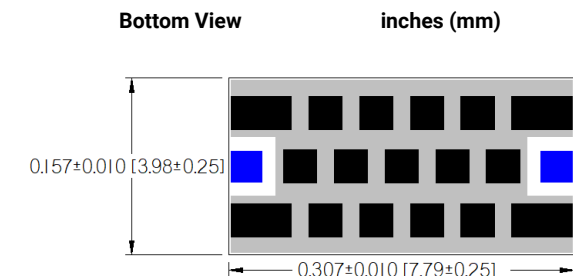
### BP0BA3350A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.350     |           | 2.3 | dB Fc Typ |
|           | 3.208     | 3.506     | 5.0 | dB Max    |
|           | 3.208     | 3.506     | 2.3 | dB Typ    |
|           | 3.282     | 3.429     | 1.5 | dB Ripple |
| Rejection | DC        | 2.386     | 30  | dB Min    |
|           | 4.480     | 9.000     | 30  | dB Min    |
|           | DC        | 2.267     | 40  | dB Min    |
|           | 4.607     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

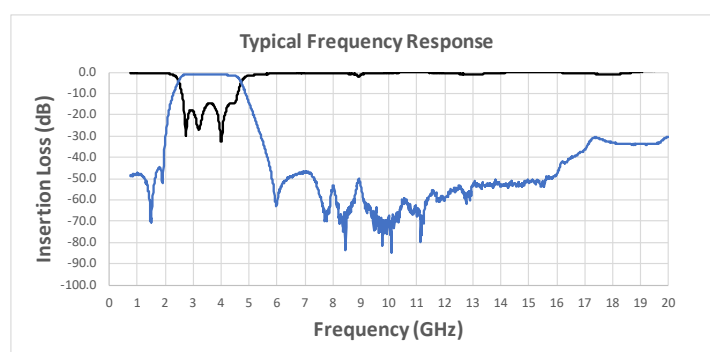
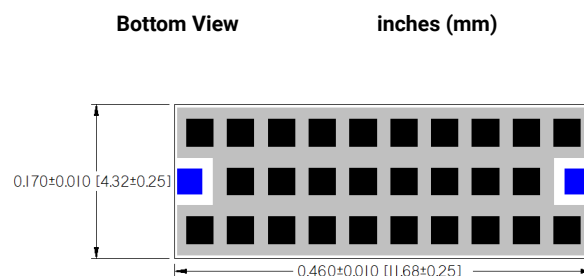
### BP0EA3430A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.430     |           | 0.8 | dB Fc Typ |
|           | 2.658     | 4.404     | 5.0 | dB Max    |
|           | 2.658     | 4.404     | 1.8 | dB Typ    |
|           | 2.683     | 4.370     | 1.5 | dB Ripple |
| Rejection | DC        | 1.924     | 30  | dB Min    |
|           | 5.689     | 16.150    | 30  | dB Min    |
|           | DC        | 1.867     | 40  | dB Min    |
|           | 5.929     | 15.200    | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



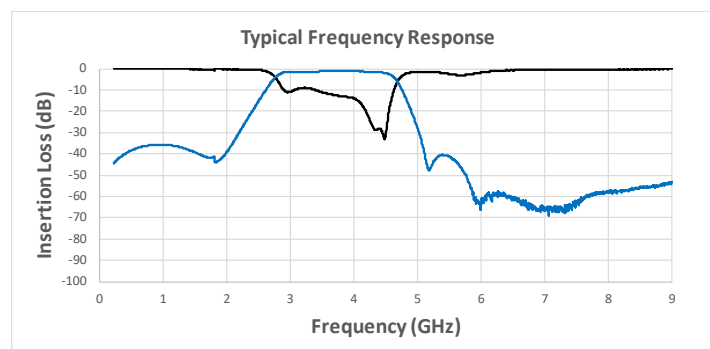
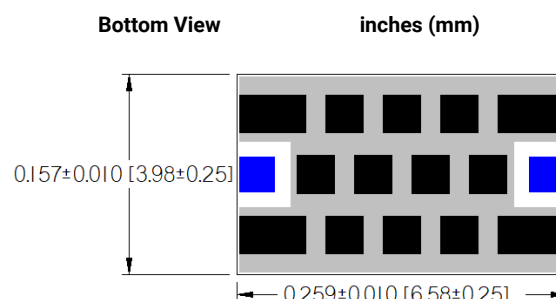
### BP0AA3580A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.580     |           | 1.2 | dB Fc Typ |
|           | 2.943     | 4.351     | 5.0 | dB Max    |
|           | 2.943     | 4.351     | 1.6 | dB Typ    |
|           | 2.972     | 4.304     | 1.5 | dB Ripple |
| Rejection | DC        | 2.068     | 30  | dB Min    |
|           | 5.292     | 9.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 6.300     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE A



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

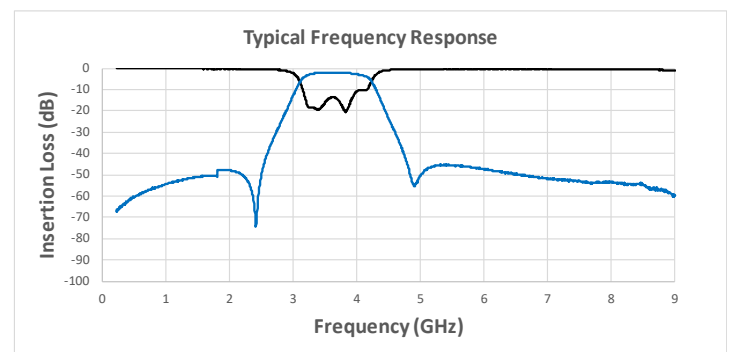
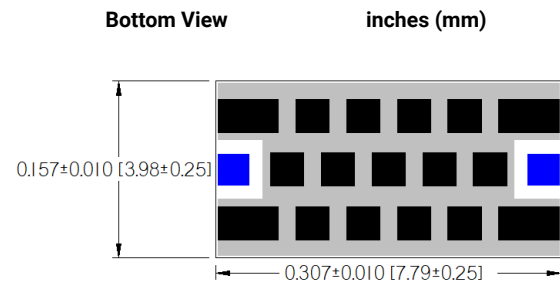
### BP0BA3630A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.630     |           | 2.1 | dB Fc Typ |
|           | 3.438     | 3.829     | 5.0 | dB Max    |
|           | 3.438     | 3.829     | 2.2 | dB Typ    |
|           | 3.513     | 3.746     | 1.5 | dB Ripple |
| Rejection | DC        | 2.594     | 30  | dB Min    |
|           | 4.884     | 9.000     | 30  | dB Min    |
|           | DC        | 2.460     | 40  | dB Min    |
|           | 5.039     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



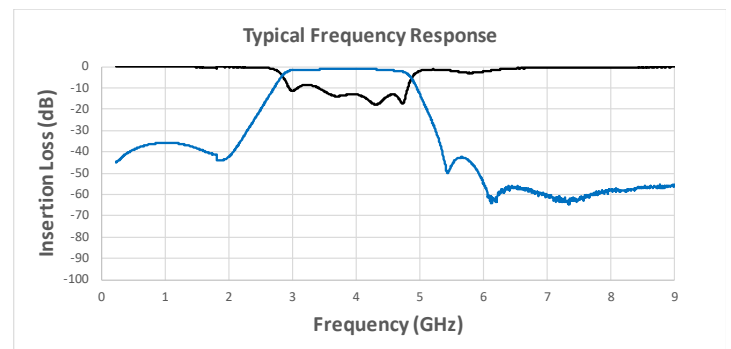
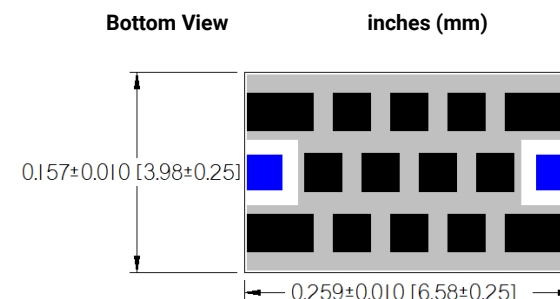
### BP0AA3700A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.700     |           | 1.1 | dB Fc Typ |
|           | 3.018     | 4.533     | 5.0 | dB Max    |
|           | 3.018     | 4.533     | 1.8 | dB Typ    |
|           | 3.046     | 4.481     | 1.5 | dB Ripple |
| Rejection | DC        | 2.152     | 30  | dB Min    |
|           | 5.500     | 9.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 6.300     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE A



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

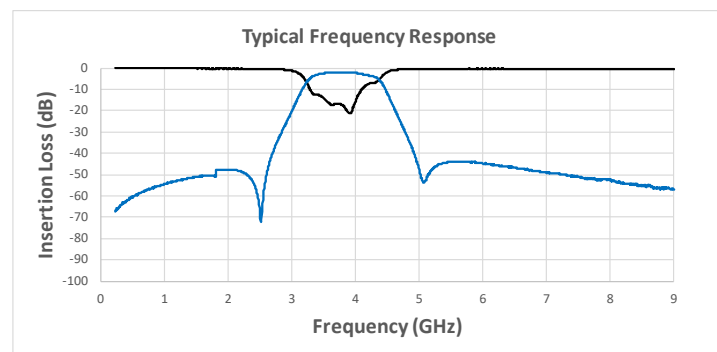
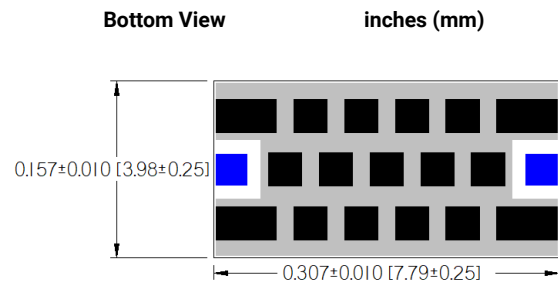
### BP0BA3750A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.750     |           | 2.0 | dB Fc Typ |
|           | 3.588     | 3.918     | 5.0 | dB Max    |
|           | 3.588     | 3.918     | 2.1 | dB Typ    |
|           | 3.657     | 3.835     | 1.5 | dB Ripple |
| Rejection | DC        | 2.694     | 30  | dB Min    |
|           | 5.097     | 9.000     | 30  | dB Min    |
|           | DC        | 2.558     | 40  | dB Min    |
|           | 5.241     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



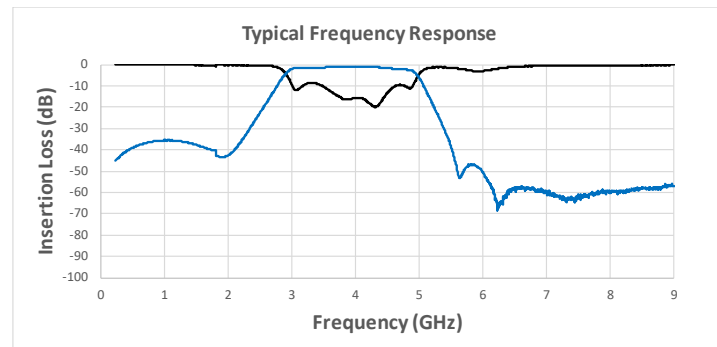
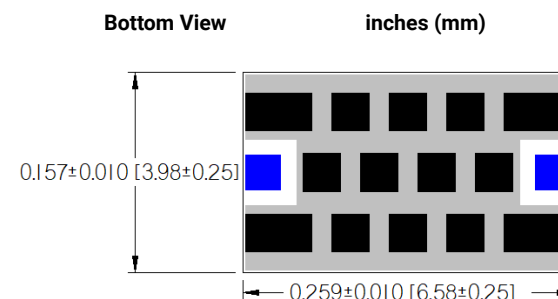
### BP0AA3790A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.790     |           | 1.0 | dB Fc Typ |
|           | 3.087     | 4.646     | 5.0 | dB Max    |
|           | 3.087     | 4.646     | 2.1 | dB Typ    |
|           | 3.108     | 4.589     | 1.5 | dB Ripple |
| Rejection | DC        | 2.199     | 30  | dB Min    |
|           | 5.661     | 9.000     | 30  | dB Min    |
|           | DC        | 0.000     | 40  | dB Min    |
|           | 5.880     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE A



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

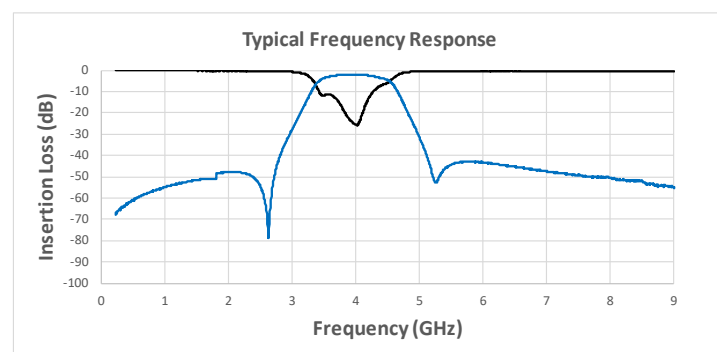
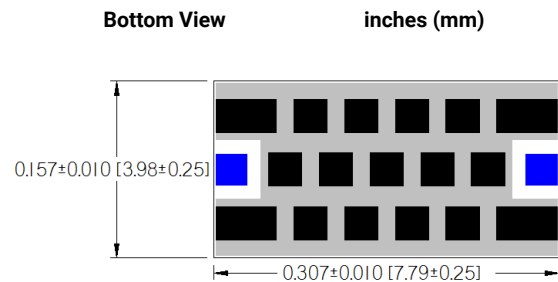
### BP0BA3900A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 3.900     |           | 2.0 | dB Fc Typ |
|           | 3.755     | 4.058     | 5.0 | dB Max    |
|           | 3.755     | 4.058     | 2.2 | dB Typ    |
|           | 3.847     | 3.960     | 1.5 | dB Ripple |
| Rejection | DC        | 2.735     | 30  | dB Min    |
|           | 5.229     | 9.000     | 30  | dB Min    |
|           | DC        | 2.600     | 40  | dB Min    |
|           | 5.373     | 9.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE B



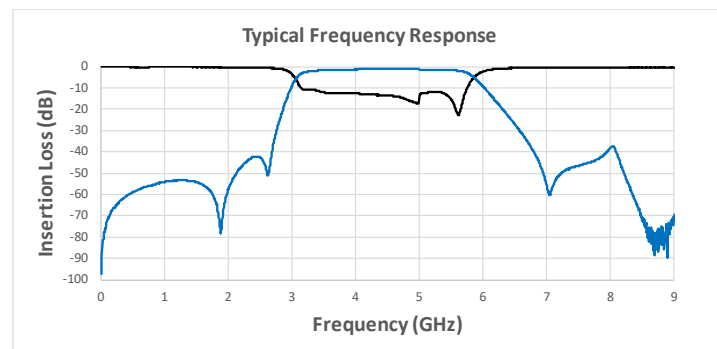
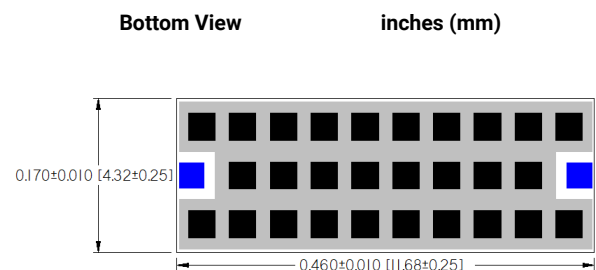
### BP0EA4260A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.260     |           | 1.3 | dB Fc Typ |
|           | 3.325     | 5.462     | 5.0 | dB Max    |
|           | 3.325     | 5.462     | 2.0 | dB Typ    |
|           | 3.389     | 5.422     | 1.5 | dB Ripple |
| Rejection | DC        | 2.621     | 30  | dB Min    |
|           | 6.920     | 9.000     | 30  | dB Min    |
|           | DC        | 2.541     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

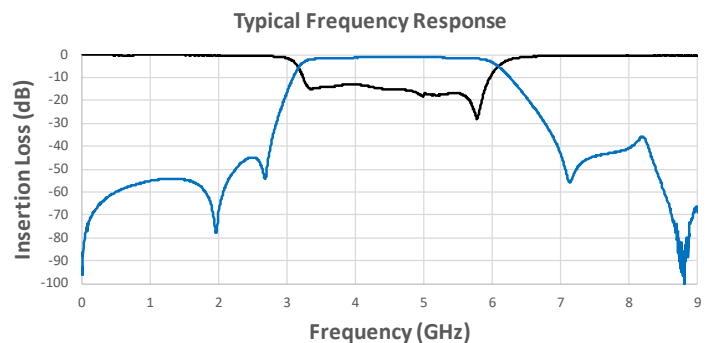
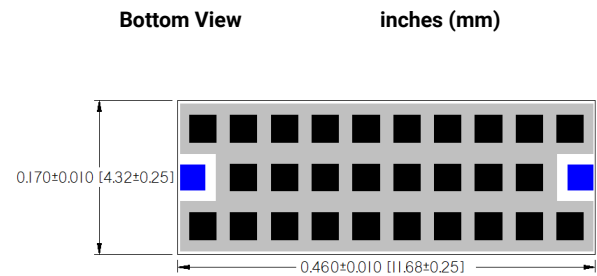
### BP0EA4400A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.400     |           | 1.1 | dB Fc Typ |
|           | 3.420     | 5.670     | 5.0 | dB Max    |
|           | 3.420     | 5.670     | 1.8 | dB Typ    |
|           | 3.456     | 5.627     | 1.5 | dB Ripple |
| Rejection | DC        | 2.699     | 30  | dB Min    |
|           | 7.109     | 9.000     | 30  | dB Min    |
|           | DC        | 2.613     | 40  | dB Min    |
|           | 0.000     | 0.000     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



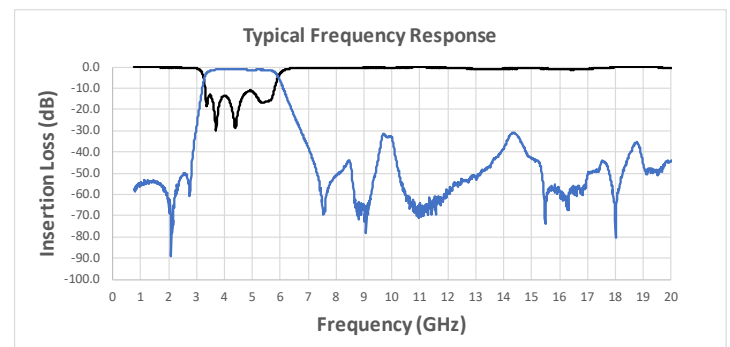
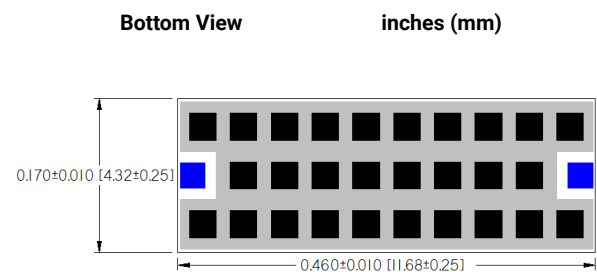
### BP0EA4440A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.440     |           | 1.1 | dB Fc Typ |
|           | 3.516     | 5.547     | 5.0 | dB Max    |
|           | 3.516     | 5.547     | 1.8 | dB Typ    |
|           | 3.554     | 5.513     | 1.5 | dB Ripple |
| Rejection | DC        | 2.827     | 30  | dB Min    |
|           | 7.079     | 9.025     | 30  | dB Min    |
|           | DC        | 2.736     | 40  | dB Min    |
|           | 7.419     | 7.838     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

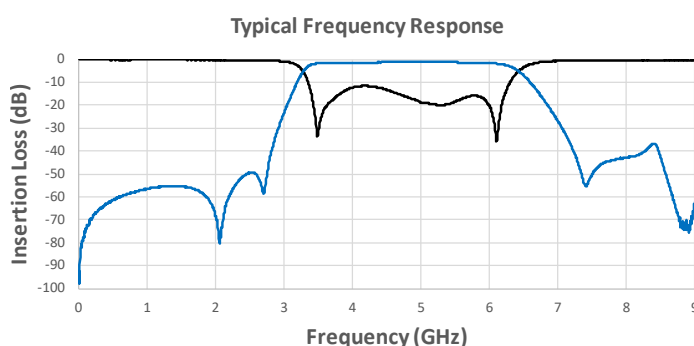
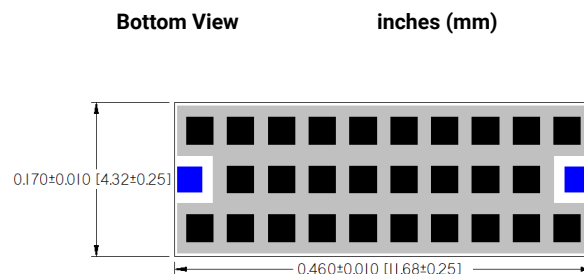
### BP0EA4583A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.583     |           | 1.1 | dB Fc Typ |
|           | 3.521     | 5.979     | 5.0 | dB Max    |
|           | 3.521     | 5.979     | 1.6 | dB Typ    |
|           | 3.542     | 5.932     | 1.5 | dB Ripple |
| Rejection | DC        | 2.770     | 30  | dB Min    |
|           | 7.419     | 9.000     | 30  | dB Min    |
|           | DC        | 2.667     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



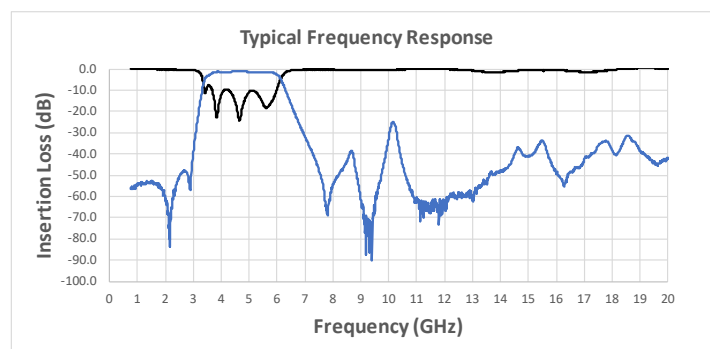
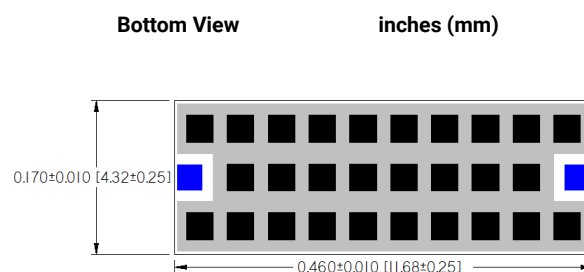
### BP0EA4600A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.6       |           | 3.8 | dB Fc Typ |
|           | 5.730     | 2.000     | 5.0 | dB Max    |
|           | 5.730     | 2.000     | 1.7 | dB Typ    |
|           | 5.696     | 1.890     | 1.5 | dB Ripple |
| Rejection | DC        | 2.839     | 30  | dB Min    |
|           | 9.510     | 7.647     | 30  | dB Min    |
|           | DC        | 7.293     | 40  | dB Min    |
|           | 8.164     | 8.164     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

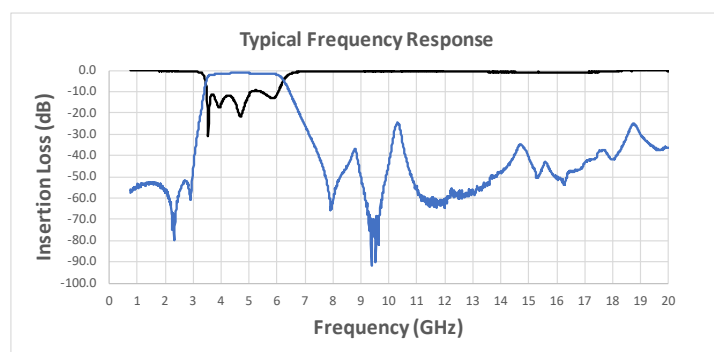
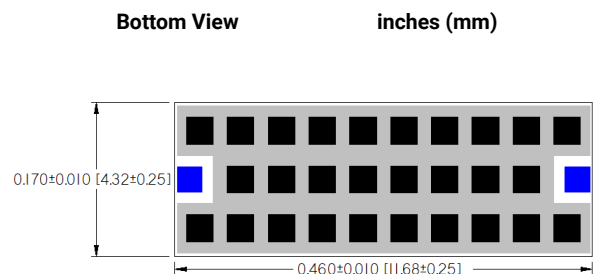
### BP0EA4680A7\*\*

#### ELECTRICAL SPECIFICATIONS

|           | Min (GHz) | Max (GHz) |     |           |
|-----------|-----------|-----------|-----|-----------|
| Pass Band | 4.680     |           | 1.2 | dB Fc Typ |
|           | 3.705     | 5.810     | 5.0 | dB Max    |
|           | 3.705     | 5.810     | 1.8 | dB Typ    |
|           | 3.743     | 5.776     | 1.5 | dB Ripple |
| Rejection | DC        | 2.987     | 30  | dB Min    |
|           | 7.509     | 9.662     | 30  | dB Min    |
|           | DC        | 2.896     | 40  | dB Min    |
|           | 7.875     | 8.245     | 40  | dB Min    |
| Dimension | Thickness |           | 22  | Mils Max  |
| RF Power  | Power     |           | 2   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



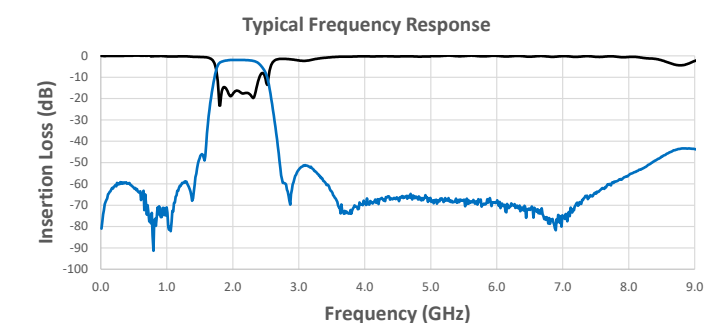
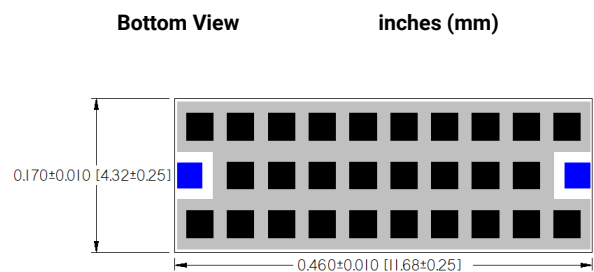
### BP0EA2055A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.055     |           | 1.8 | dB Fc Typ |
|            | 1.902     | 2.223     | 5.0 | dB Max    |
|            | 1.902     | 2.223     | 2.1 | dB Typ    |
|            | 1.944     | 2.180     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.492     | 30  | dB Min    |
|            | 2.770     | 8.000     | 30  | dB Min    |
|            | DC        | 1.492     | 40  | dB Min    |
|            | 2.817     | 8.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters

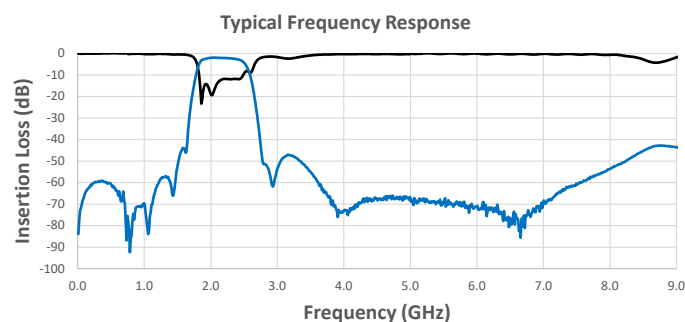
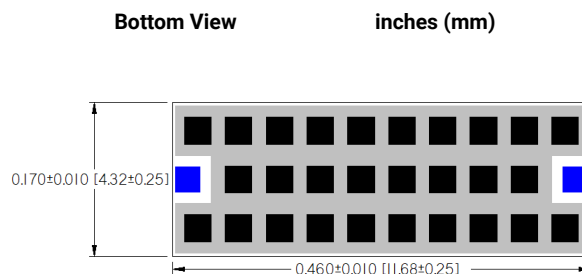
### BP0EA2135A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.135     |           | 1.8 | dB Fc Typ |
|            | 1.961     | 2.325     | 5.0 | dB Max    |
|            | 1.961     | 2.325     | 2.2 | dB Typ    |
|            | 2.002     | 2.266     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.529     | 30  | dB Min    |
|            | 2.841     | 8.000     | 30  | dB Min    |
|            | DC        | 1.529     | 40  | dB Min    |
|            | 2.882     | 8.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



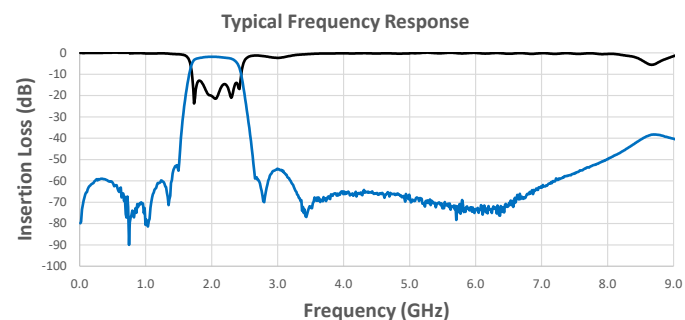
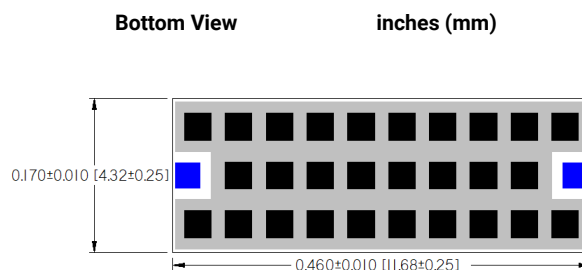
### BP0EA2000A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.000     |           | 1.8 | dB Fc Typ |
|            | 1.838     | 2.180     | 5.0 | dB Max    |
|            | 1.838     | 2.180     | 2.2 | dB Typ    |
|            | 1.878     | 2.121     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.454     | 30  | dB Min    |
|            | 2.675     | 8.000     | 30  | dB Min    |
|            | DC        | 1.454     | 40  | dB Min    |
|            | 2.729     | 8.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters



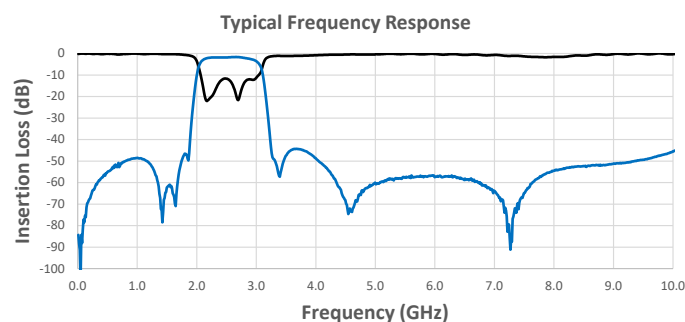
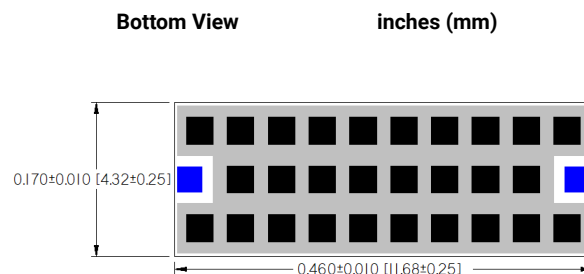
### BP0EA2510A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.510     |           | 1.6 | dB Fc Typ |
|            | 2.209     | 2.832     | 5.0 | dB Max    |
|            | 2.209     | 2.832     | 2.1 | dB Typ    |
|            | 2.245     | 2.774     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.796     | 30  | dB Min    |
|            | 3.366     | 9.000     | 30  | dB Min    |
|            | DC        | 1.796     | 40  | dB Min    |
|            | 3.402     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



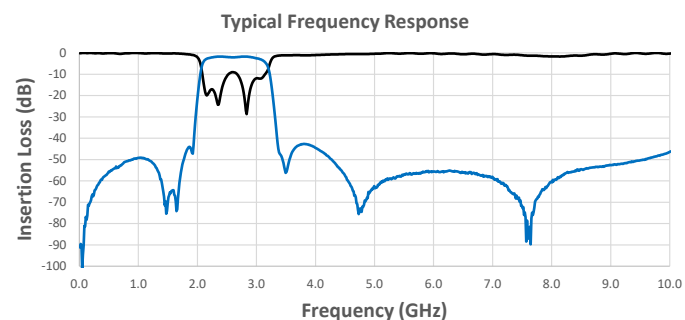
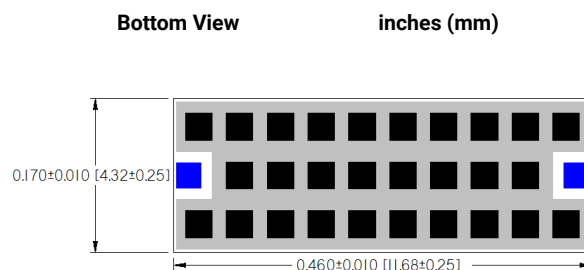
### BP0EA2568A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.568     |           | 1.9 | dB Fc Typ |
|            | 2.256     | 2.923     | 5.0 | dB Max    |
|            | 2.256     | 2.923     | 2.1 | dB Typ    |
|            | 2.286     | 2.864     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.844     | 30  | dB Min    |
|            | 3.485     | 9.000     | 30  | dB Min    |
|            | DC        | 1.844     | 40  | dB Min    |
|            | 3.521     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



Multilayer Organic (MLO®) Filters

MLO® Band Pass Filters



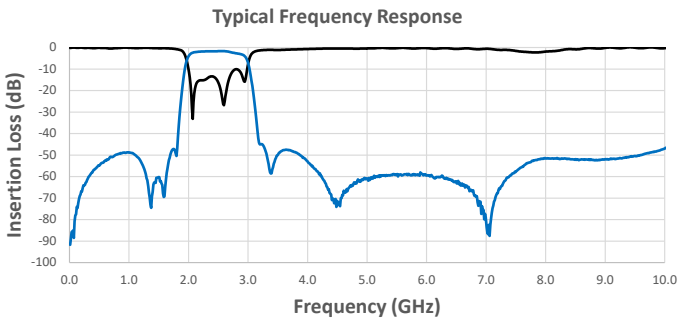
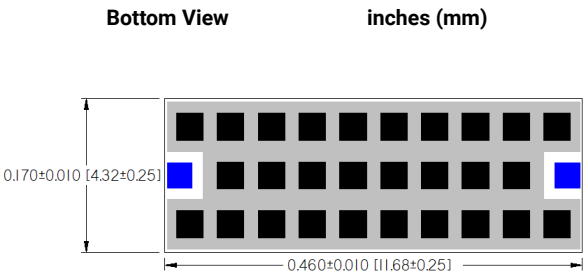
BP0EA2423A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 2.423     |           | 1.6 | dB Fc Typ |
|            | 2.138     | 2.746     | 5.0 | dB Max    |
|            | 2.138     | 2.746     | 2.3 | dB Typ    |
|            | 2.168     | 2.646     | 1.5 | dB Ripple |
| Rejection  | DC        | 1.732     | 30  | dB Min    |
|            | 3.290     | 9.000     | 30  | dB Min    |
|            | DC        | 1.732     | 40  | dB Min    |
|            | 3.325     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

DIMENSIONS – CASE SIZE E



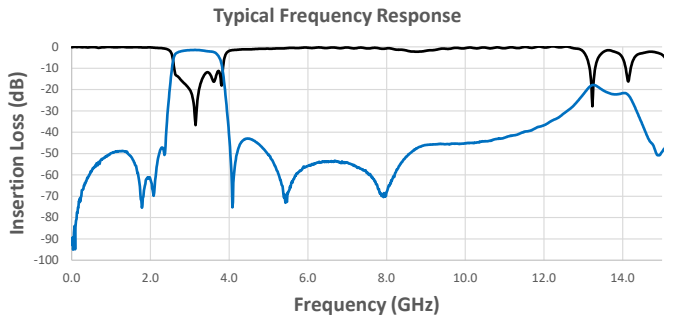
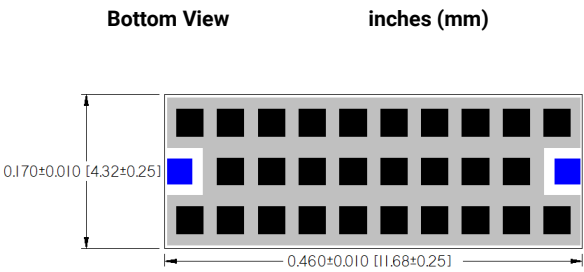
BP0EA3123A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.123     |           | 1.5 | dB Fc Typ |
|            | 2.799     | 3.485     | 5.0 | dB Max    |
|            | 2.799     | 3.485     | 2.2 | dB Typ    |
|            | 2.847     | 3.430     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.288     | 30  | dB Min    |
|            | 4.153     | 9.000     | 30  | dB Min    |
|            | DC        | 2.288     | 40  | dB Min    |
|            | 4.200     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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DIMENSIONS – CASE SIZE E



# Multilayer Organic (MLO®) Filters

## MLO® Band Pass Filters



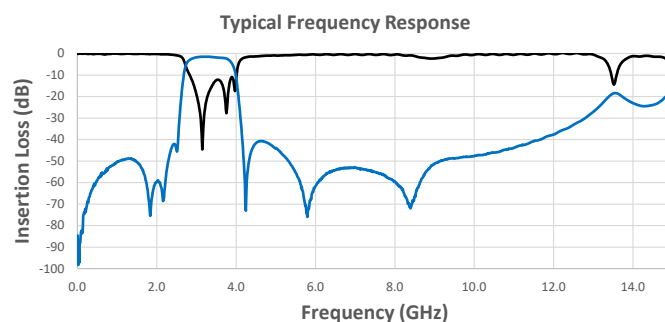
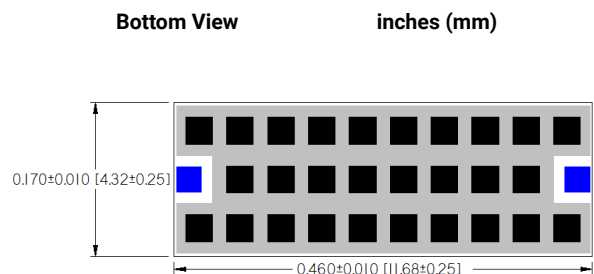
### BP0EA3284A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.284     |           | 1.5 | dB Fc Typ |
|            | 2.972     | 3.629     | 5.0 | dB Max    |
|            | 2.972     | 3.629     | 2.1 | dB Typ    |
|            | 3.019     | 3.586     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.292     | 30  | dB Min    |
|            | 4.324     | 9.000     | 30  | dB Min    |
|            | DC        | 2.292     | 40  | dB Min    |
|            | 5.091     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

#### DIMENSIONS – CASE SIZE E



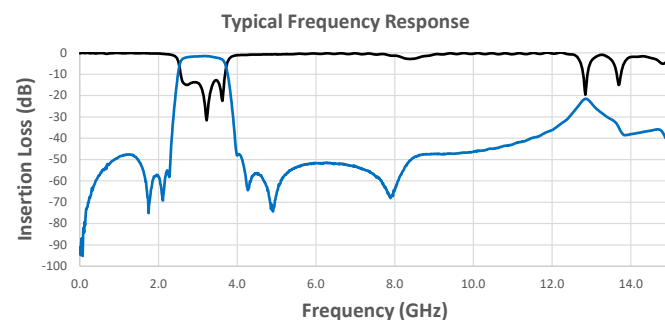
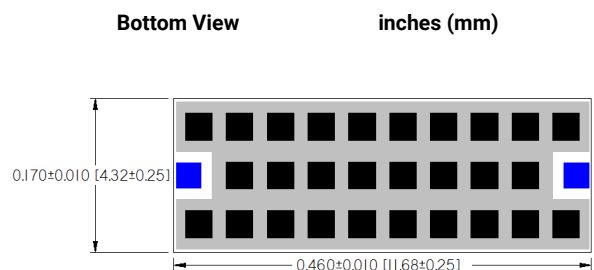
### BP0EA3060A7\*\*

#### ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.060     |           | 1.6 | dB Fc Typ |
|            | 2.741     | 3.420     | 5.0 | dB Max    |
|            | 2.741     | 3.420     | 2.1 | dB Typ    |
|            | 2.783     | 3.340     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.223     | 30  | dB Min    |
|            | 4.099     | 10.200    | 30  | dB Min    |
|            | DC        | 2.223     | 40  | dB Min    |
|            | 4.140     | 10.200    | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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#### DIMENSIONS – CASE SIZE E



Multilayer Organic (MLO®) Filters

MLO® Band Pass Filters



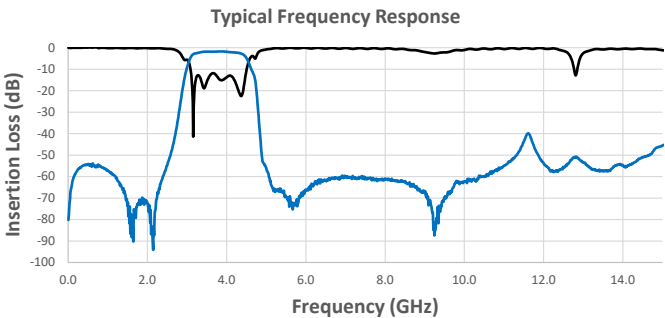
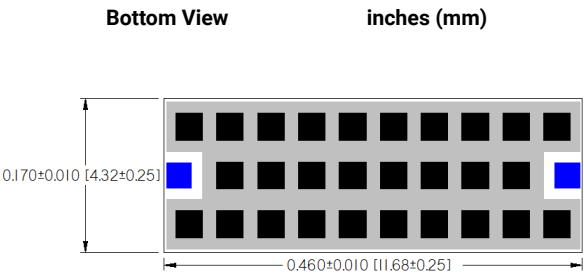
BP0EA3720A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.720     |           | 2   | dB Fc Typ |
|            | 3.319     | 4.169     | 5.0 | dB Max    |
|            | 3.319     | 4.169     | 2.5 | dB Typ    |
|            | 3.408     | 3.981     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.575     | 30  | dB Min    |
|            | 5.051     | 9.000     | 30  | dB Min    |
|            | DC        | 2.575     | 40  | dB Min    |
|            | 5.098     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

Click here to return to main table.

DIMENSIONS – CASE SIZE E



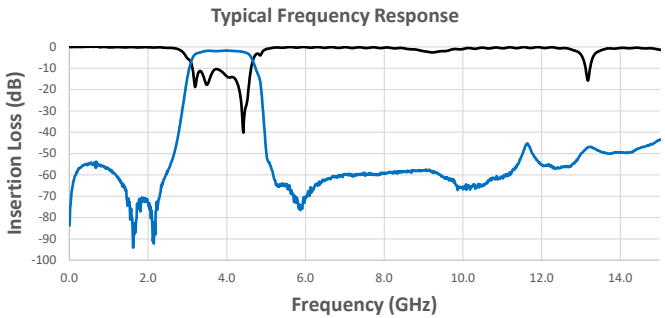
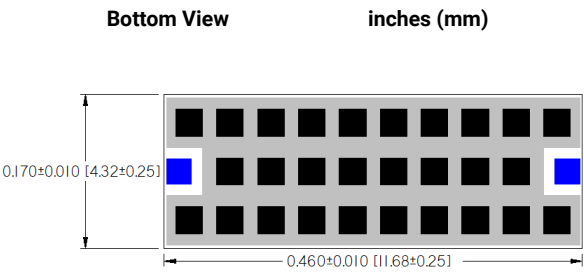
BP0EA3827A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.827     |           | 2.1 | dB Fc Typ |
|            | 3.408     | 4.297     | 5.0 | dB Max    |
|            | 3.408     | 4.297     | 2.4 | dB Typ    |
|            | 3.508     | 4.169     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.640     | 30  | dB Min    |
|            | 5.180     | 9.000     | 30  | dB Min    |
|            | DC        | 2.640     | 40  | dB Min    |
|            | 5.222     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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DIMENSIONS – CASE SIZE E



Multilayer Organic (MLO®) Filters

MLO® Band Pass Filters



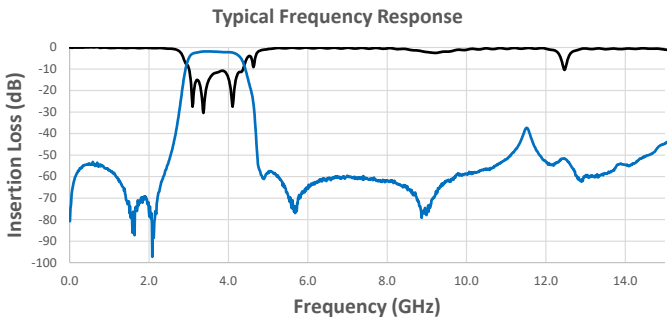
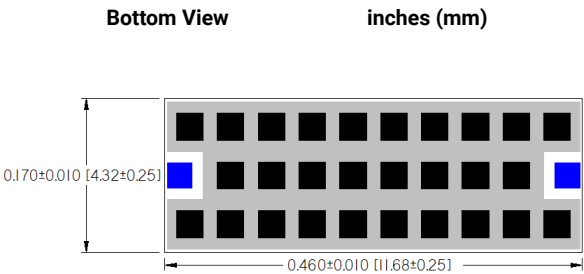
BP0EA3597A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 3.597     |           | 1.9 | dB Fc Typ |
|            | 3.237     | 3.998     | 5.0 | dB Max    |
|            | 3.237     | 3.998     | 2.4 | dB Typ    |
|            | 3.325     | 3.923     | 1.5 | dB Ripple |
| Rejection  | DC        | 2.538     | 30  | dB Min    |
|            | 4.896     | 9.000     | 30  | dB Min    |
|            | DC        | 2.538     | 40  | dB Min    |
|            | 4.930     | 9.000     | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

[Click here to return to main table.](#)

DIMENSIONS – CASE SIZE E



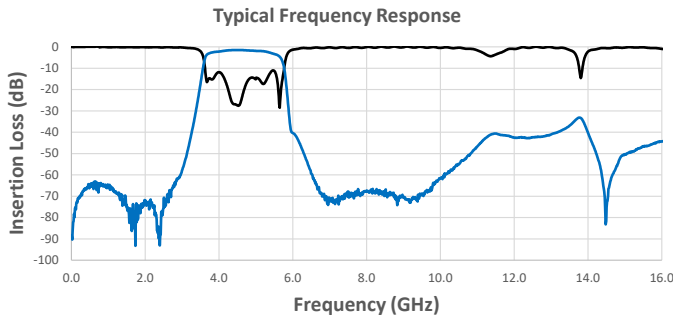
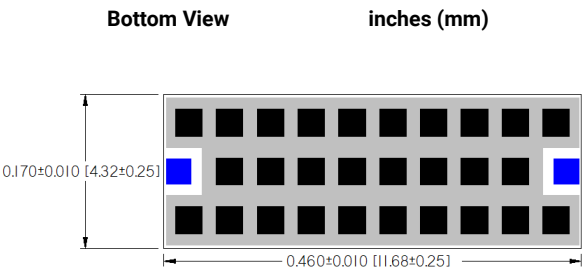
BP0EA4550A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 4.550     |           | 1.7 | dB Fc Typ |
|            | 3.922     | 5.160     | 5.0 | dB Max    |
|            | 3.922     | 5.160     | 2   | dB Typ    |
|            | 4.052     | 5.071     | 1.5 | dB Ripple |
| Rejection  | DC        | 3.084     | 30  | dB Min    |
|            | 6.278     | 11.000    | 30  | dB Min    |
|            | DC        | 3.084     | 40  | dB Min    |
|            | 6.302     | 11.000    | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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DIMENSIONS – CASE SIZE E



Multilayer Organic (MLO®) Filters

MLO® Band Pass Filters



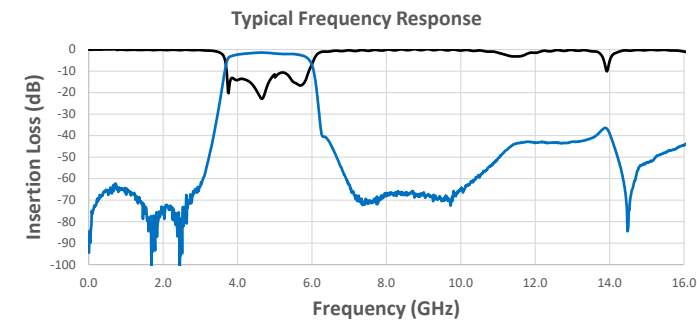
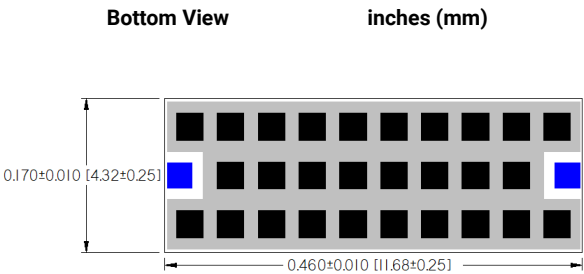
BP0EA4649A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 4.649     |           | 1.8 | dB Fc Typ |
|            | 4.016     | 5.381     | 5.0 | dB Max    |
|            | 4.016     | 5.381     | 2.7 | dB Typ    |
|            | 4.371     | 5.285     | 1.5 | dB Ripple |
| Rejection  | DC        | 3.159     | 30  | dB Min    |
|            | 6.497     | 11.000    | 30  | dB Min    |
|            | DC        | 3.159     | 40  | dB Min    |
|            | 6.596     | 11.000    | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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DIMENSIONS – CASE SIZE E



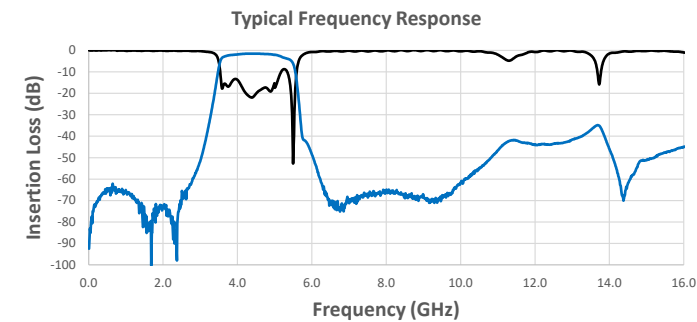
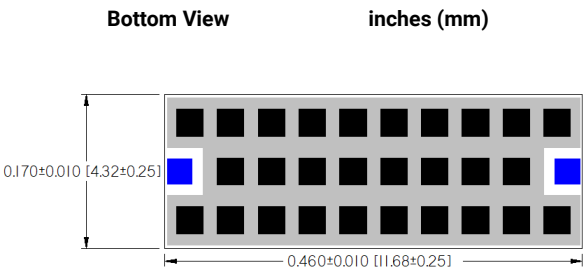
BP0EA4363A7\*\*

ELECTRICAL SPECIFICATIONS

|            | Min (GHz) | Max (GHz) |     |           |
|------------|-----------|-----------|-----|-----------|
| Pass Band  | 4.363     |           | 1.6 | dB Fc Typ |
|            | 3.863     | 4.927     | 5.0 | dB Max    |
|            | 3.863     | 4.927     | 2.2 | dB Typ    |
|            | 3.933     | 4.847     | 1.5 | dB Ripple |
| Rejection  | DC        | 3.009     | 30  | dB Min    |
|            | 6.019     | 10.500    | 30  | dB Min    |
|            | DC        | 3.009     | 40  | dB Min    |
|            | 6.072     | 10.500    | 40  | dB Min    |
| Dimensions | Thickness |           | 22  | Mils Max  |
| RF Power   | Power     |           | 1   | Watts Max |

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DIMENSIONS – CASE SIZE E



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|                                               |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| <a href="#"><u>BPF3416MO0620L0970HLGW</u></a> | <a href="#"><u>BPF3416MO0860L1390HLGW</u></a> | <a href="#"><u>BPF3416MO1270L2050HLGW</u></a> |
| <a href="#"><u>BPF4617MO1440L2640HLGW</u></a> | <a href="#"><u>BPF5021MO0890L1440HLGW</u></a> | <a href="#"><u>BPF5021MO0990L1440HLGW</u></a> |
| <a href="#"><u>BPF4617MO2620L4190HLGW</u></a> | <a href="#"><u>BPF4617MO2640L4460HLGW</u></a> | <a href="#"><u>BPF4617MO3490L5660HLGW</u></a> |
| <a href="#"><u>BPF4617MO3660L5780HLGW</u></a> | <a href="#"><u>BPF4617MO3700L5930HLGW</u></a> | <a href="#"><u>BPF5021MO0870L1390HLGW</u></a> |
| <a href="#"><u>BPF4617MO1470L2680HLGW</u></a> | <a href="#"><u>BPF4617MO1540L2840HLGW</u></a> | <a href="#"><u>BPF4617MO2020L3100HLGW</u></a> |
| <a href="#"><u>BPF4617MO2020L3210HLGW</u></a> | <a href="#"><u>BPF4617MO2090L3280HLGW</u></a> | <a href="#"><u>BPF4617MO2450L4140HLGW</u></a> |