



# 240-066

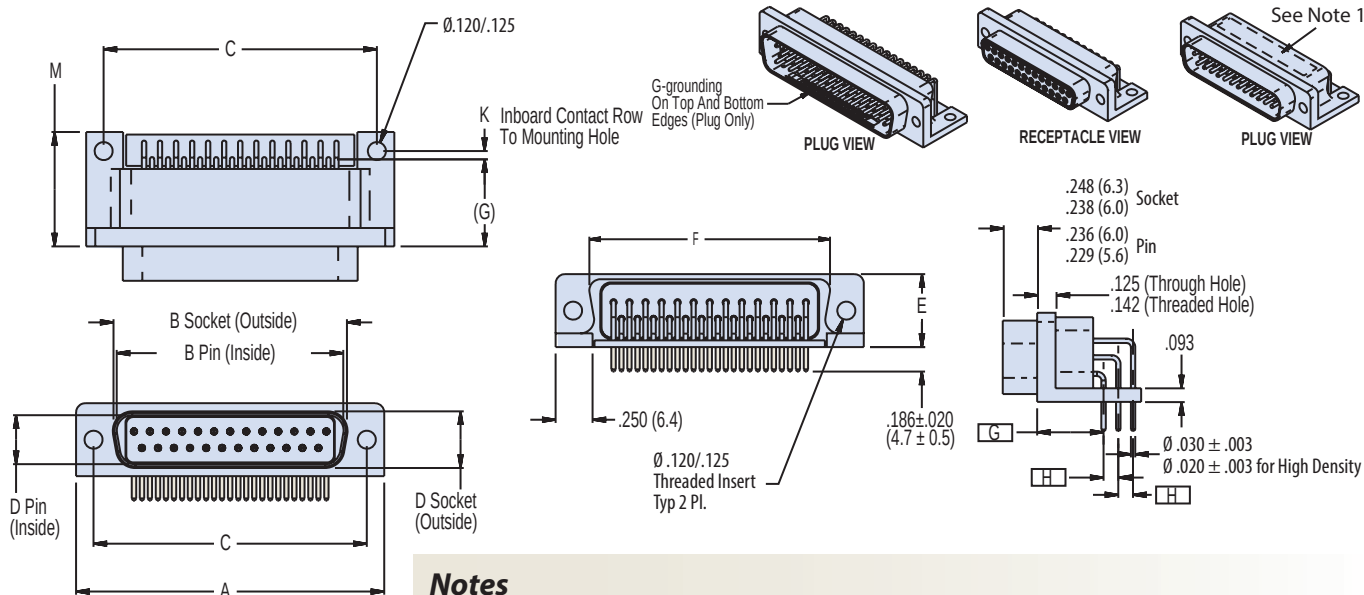
## D-Subminiature Filter Connector

### Right Angle PCB Contacts

#### How To Order Filter D-Subminiature Right-Angle Mount Connectors

| Sample Part Number    |                                                                  | 240-066 | S                  | -15 | P | Z2 | C | A | C | M | -G |
|-----------------------|------------------------------------------------------------------|---------|--------------------|-----|---|----|---|---|---|---|----|
| Series                | 240-066                                                          |         |                    |     |   |    |   |   |   |   |    |
| Contact Density       | S - Standard    H - High                                         |         |                    |     |   |    |   |   |   |   |    |
| Number of Contacts    | 9, 15, 25, 26, 37, 44, 50, 62, 78, 104 (See Table II)            |         |                    |     |   |    |   |   |   |   |    |
| Contact Type          | P - Pin      S - Socket (See Table I)                            |         |                    |     |   |    |   |   |   |   |    |
| Shell Material/Finish | <b>Aluminum Shell</b>                                            |         | <b>Brass Shell</b> |     |   |    |   |   |   |   |    |
|                       | ME - Electroless Nickel    JF - Yellow Cadmium                   |         | GS - Gold          |     |   |    |   |   |   |   |    |
|                       | MT - Nickel-PTFE    Z2 - Gold    E - Chem Film                   |         |                    |     |   |    |   |   |   |   |    |
| Filter Type           | C - C Filter    P - Pi Filter (See Table I)                      |         |                    |     |   |    |   |   |   |   |    |
| Filter Class          | A, B, C, D, E, F, G, J (See Table I)                             |         |                    |     |   |    |   |   |   |   |    |
| Mounting Options      | B - No Hardware    C - 4-40 Clinch Nut    M - Metric Thread (M3) |         |                    |     |   |    |   |   |   |   |    |
| Footprint Type        | M - Mil-Spec    E - European (See Table V)                       |         |                    |     |   |    |   |   |   |   |    |
| EMI Spring            | G - EMI Spring (Plug/Pin Only)    N - No Spring                  |         |                    |     |   |    |   |   |   |   |    |

E



#### Notes

1. Assembly to be identified with Glenair's name, part number, and date code space permitting
2. Dimensions B and D taken from inside of shell for Pin/Plug and outside for Socket/Receptacle.
3. Electrical Performance:  
Dielectric Withstanding Voltage: 500 VDC  
Insulation Resistance: 5,000 megohms @ 200 VDC  
Current Rating Standard Density: 7.5 Amps max.  
Current Rating High Density: 5 Amps max.

#### Materials/Finishes:

Insulators - High Grade Rigid Dielectric/N.A  
Contacts - Copper Alloy/Gold Plated

Table I: Capacitor Array Code  
Capacitance Range

| Class | Pi - Circuit (pF) | C - Circuit (pF) |
|-------|-------------------|------------------|
| A     | 38,000 - 56,000   | 19,000 - 28,000  |
| B     | 32,000 - 45,000   | 16,000 - 22,500  |
| C     | 18,000 - 33,000   | 9,000 - 16,500   |
| D     | 8,000 - 12,000    | 4,000 - 6,000    |
| E     | 3,300 - 5,000     | 1,650 - 2,500    |
| F     | 800 - 1,300       | 400 - 650        |
| G     | 400 - 600         | 200 - 300        |
| J     | 70 - 120          | 35 - 60          |

Dimensions in inches (millimeters) and are subject to change without notice.

**240-066**  
**D-Subminiature Filter Connector**  
**Right Angle PCB Contacts**



D-Subminiature  
MIL-DTL-24308 Type

**Table II: Dimensions**

| Shell Size | Number of Contacts |      | A            | B            | C            | D            | E            | F            |
|------------|--------------------|------|--------------|--------------|--------------|--------------|--------------|--------------|
|            | STD                | HD   | ±.015 (0.38) | ±.005 (0.13) | ±.005 (0.13) | ±.005 (0.13) | ±.015 (0.38) | Max          |
| 1          | 9P                 | 15P  | 1.213 (30.8) | .666 (16.9)  | .984 (25.0)  | .329 (8.4)   | .494 (12.5)  | .769 (19.5)  |
|            | 9S                 | 15S  | 1.213 (30.8) | .643 (16.3)  | .984 (25.0)  | .311 (7.9)   | .494 (12.5)  | .769 (19.5)  |
| 2          | 15P                | 26P  | 1.541 (39.1) | .994 (25.2)  | 1.312 (33.3) | .329 (8.4)   | .494 (12.5)  | 1.093 (27.8) |
|            | 15S                | 26S  | 1.541 (39.1) | .971 (24.7)  | 1.312 (33.3) | .311 (7.9)   | .494 (12.5)  | 1.093 (27.8) |
| 3          | 25P                | 44P  | 2.088 (53.0) | 1.534 (39.0) | 1.852 (47.0) | .329 (8.4)   | .494 (12.5)  | 1.635 (41.5) |
|            | 25S                | 44S  | 2.088 (53.0) | 1.511 (38.4) | 1.852 (47.0) | .311 (7.9)   | .494 (12.5)  | 1.635 (41.5) |
| 4          | 37P                | 62P  | 2.729 (69.3) | 2.182 (55.4) | 2.500 (63.5) | .329 (8.4)   | .494 (12.5)  | 2.282 (58.0) |
|            | 37S                | 62S  | 2.729 (69.3) | 2.159 (54.8) | 2.500 (63.5) | .311 (7.9)   | .494 (12.5)  | 2.282 (58.0) |
| 5          | 50P                | 78P  | 2.635 (66.9) | 2.079 (52.8) | 2.406 (61.1) | .441 (11.2)  | .605 (15.4)  | 2.188 (55.6) |
|            | 50S                | 78S  | 2.635 (66.9) | 2.064 (52.4) | 2.406 (61.1) | .423 (10.7)  | .605 (15.4)  | 2.188 (55.6) |
| 6          | X                  | 104P | 2.729 (69.3) | 2.212 (56.2) | 2.500 (63.5) | .503 (12.8)  | .668 (17.0)  | 2.312 (58.7) |
|            |                    | 104S | 2.729 (69.3) | 2.189 (55.6) | 2.500 (63.5) | .486 (12.3)  | .668 (17.0)  | 2.312 (58.7) |

**Table V: Dimensions**

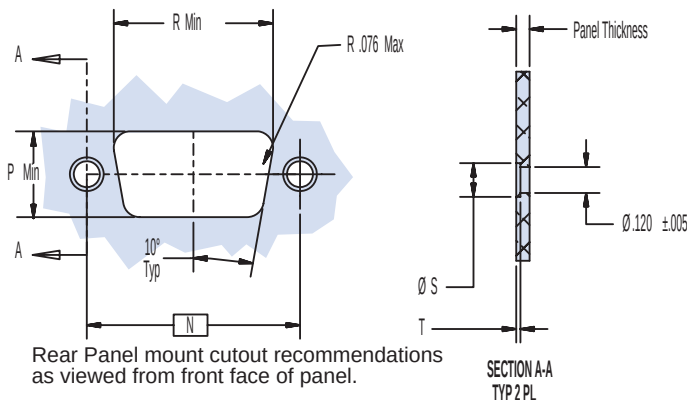
| Contact Density  | # of Contacts | Footprint Type | H Basic    | K Basic     | M ± .015     |             |
|------------------|---------------|----------------|------------|-------------|--------------|-------------|
|                  |               |                |            |             | Pi Filter    | C Filter    |
| Standard Density | 9-37          | Mil-Aero       | .112 (2.8) | .056 (1.4)  | .777 (19.7)  | .637 (16.2) |
|                  |               | Euro Style     | .100 (2.5) | .050 (1.3)  | .765 (19.4)  | .625 (15.9) |
|                  | 50            | Mil-Aero       | .112 (2.8) | .112 (2.8)  | .889 (22.6)  | .749 (19.0) |
|                  |               | Euro Style     | .100 (2.5) | .100 (2.5)  | .865 (22.0)  | .725 (18.4) |
| High Density     | 15-62         | Mil-Aero       | .078 (2.0) | .078 (2.0)  | .821 (20.9)  | .681 (17.3) |
|                  |               | Euro Style     | .100 (2.5) | .100 (2.5)  | .865 (22.0)  | .725 (18.4) |
|                  | 78            | Mil-Aero       | .082 (2.1) | .123 (3.12) | .911 (23.1)  | .771 (19.6) |
|                  |               | Euro Style     | .100 (2.5) | .150 (3.81) | .965 (24.5)  | .825 (21.0) |
|                  | 104           | Mil-Aero       | .082 (2.1) | .200 (5.08) | 1.065 (27.1) | .853 (21.7) |
|                  |               | Euro Style     | .100 (2.5) | .164 (4.2)  | .993 (25.2)  | .925 (23.5) |

**Table III: Cut-Out Dimensions**

| Shell Size | N BSC        | P Min       | R Min        |
|------------|--------------|-------------|--------------|
| 1          | .984 (25.0)  | .396 (10.1) | .735 (18.7)  |
| 2          | 1.312 (33.3) | .396 (10.1) | 1.060 (26.9) |
| 3          | 1.852 (47.0) | .396 (10.1) | 1.603 (40.7) |
| 4          | 2.500 (63.5) | .396 (10.1) | 2.251 (57.2) |
| 5          | 2.406 (61.1) | .510 (13.0) | 2.148 (55.0) |
| 6          | 2.500 (63.5) | .630 (16.0) | 2.276 (57.8) |

**Table IV: Panel Thickness**

| Panel Code | Panel Thickness | S                   | T           |
|------------|-----------------|---------------------|-------------|
| R1         | .031 (0.79)     | N/A                 | N/A         |
| R2         | .047 (1.19)     | .156/.199 (4.0/5.1) | .005 (0.13) |
| R3         | .062 (1.57)     | .156/.199 (4.0/5.1) | .020 (0.50) |
| R4         | .093 (2.36)     | .156/.199 (4.0/5.1) | .051 (1.30) |
| R5         | .104 (2.64)     | .156/.199 (4.0/5.1) | .061 (1.55) |
| R6         | .125 (3.18)     | .156/.199 (4.0/5.1) | .082 (2.08) |
| R7         | .156 (3.96)     | .156/.199 (4.0/5.1) | .114 (2.90) |

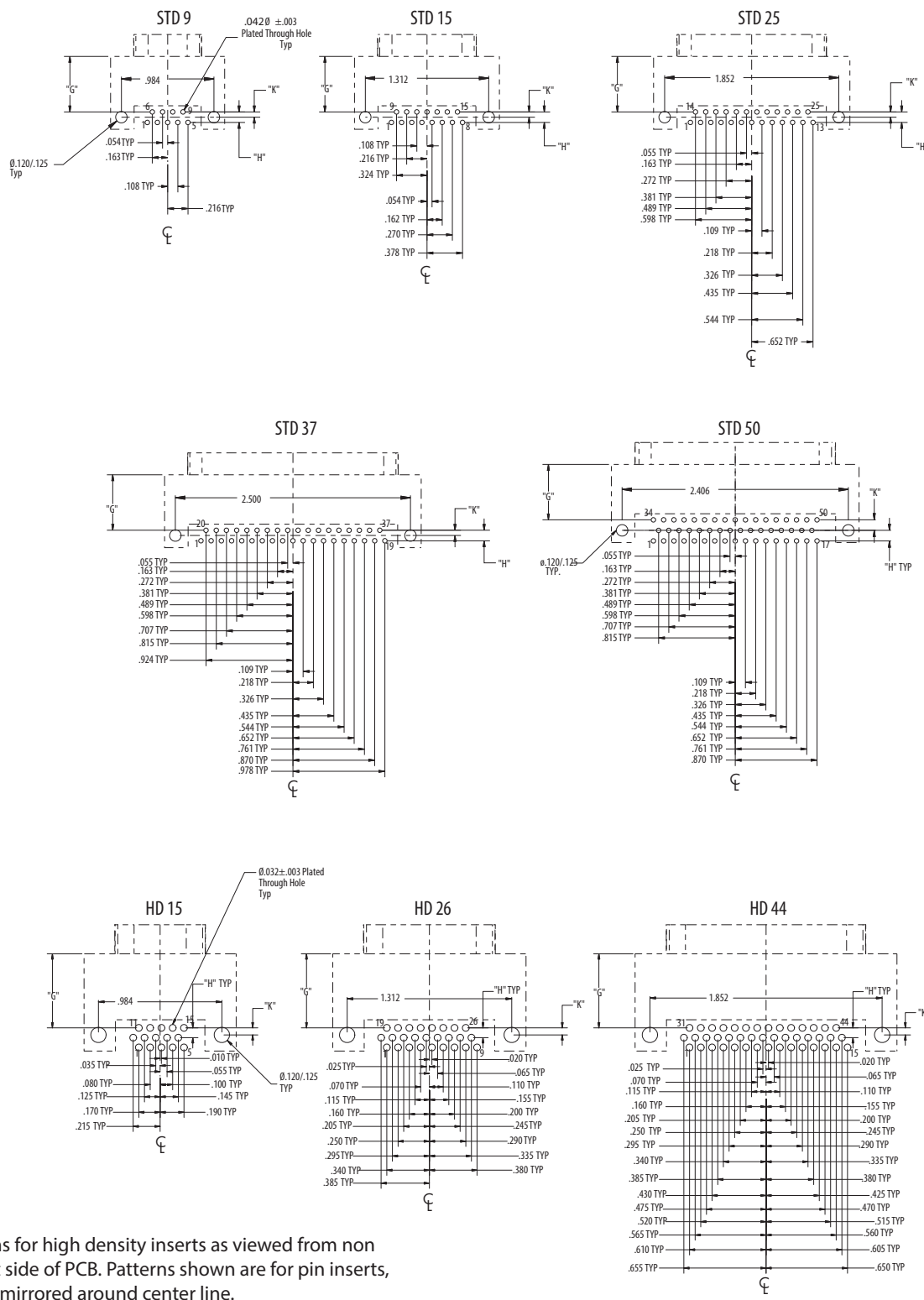


Dimensions in inches (millimeters) and are subject to change without notice.



240-066

# D-Subminiature Filter Connector Right Angle PCB Contacts • Connector Footprints



PCB patterns for high density inserts as viewed from non component side of PCB. Patterns shown are for pin inserts, sockets are mirrored around center line.

Dimensions in inches (millimeters) and are subject to change without notice.

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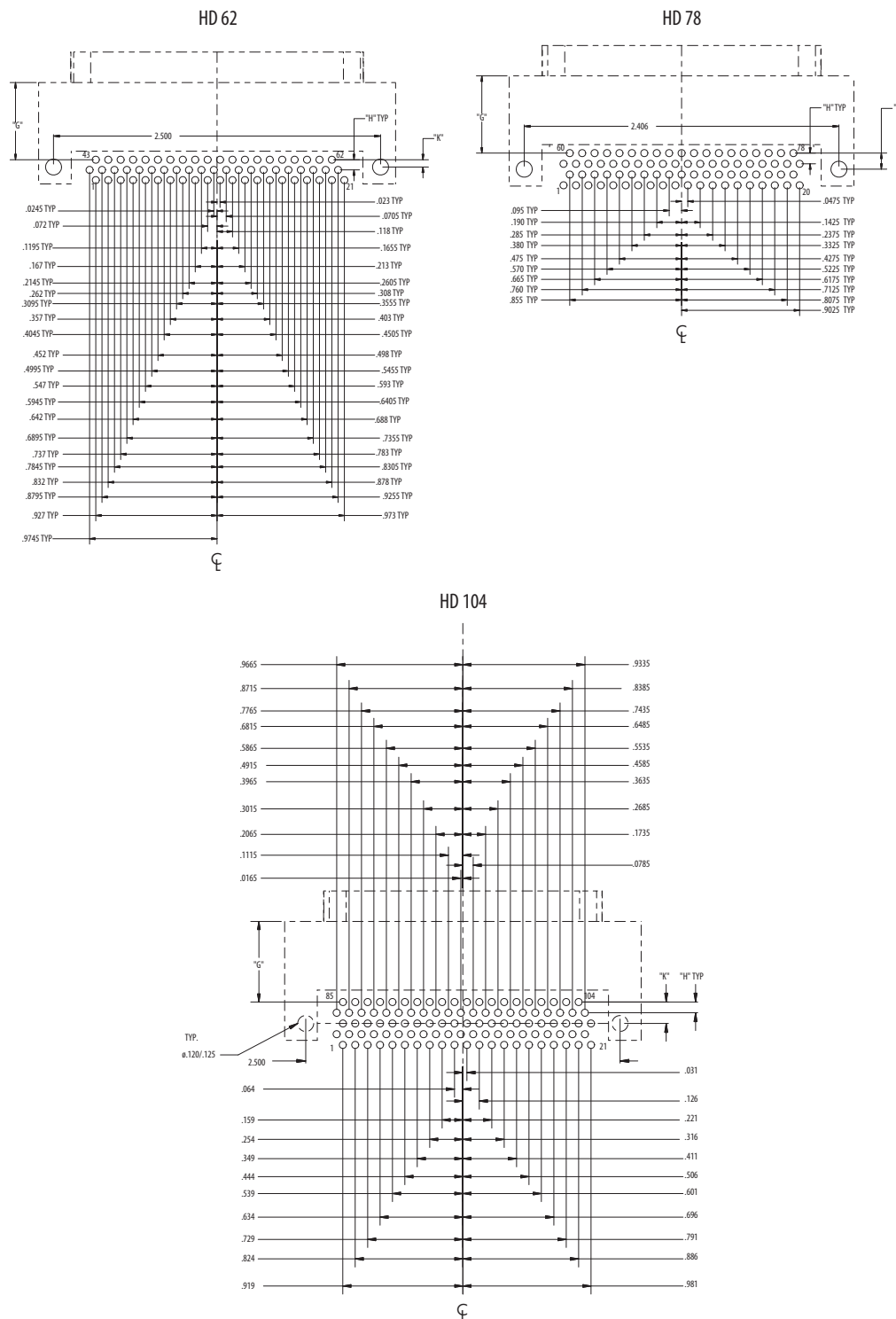
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**240-066**  
**D-Subminiature Filter Connector**  
**Right Angle PCB Contacts • Connector Footprints**



D-Subminiature  
MIL-DTL-24308 Type



**E**

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