

ECS Ceramic Resonators, Filters and Cylinder Crystals

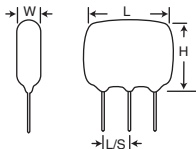


ZTT SERIES CERAMIC RESONATORS

The ZTT Series ceramic resonator offers wide frequency range and extended temperature range capabilities with built-in load capacitance.

- Specifications:**
- Operating temp.: -20°C to +80°C
 - Frequency accuracy (@25°C): ±0.5%
 - Aging for 10 years: ±0.3%

- Features:**
- Low profile
 - Wide frequency range
 - Extended temperature range
 - High stability
 - Built-in load capacitance



DIMENSIONS: mm



For quantities of 500 and up, call for quote.

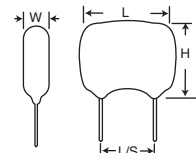
MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Load Cap.	Dimensions				Price Each		
				W	L	H	L/S	1	10	100
520-ZTT358MG	ZTT-3.58MG	3.580000	30pf	5	10	7.5	2.5	.50	.44	.35
520-ZTT400MG	ZTT-4.00MG	4.000000	30pf	5	10	7.5	2.5	.50	.44	.35
520-ZTT600MG	ZTT-6.00MG	6.000000	30pf	5	10	10	2.5	.50	.44	.35
520-ZTT800MT	ZTT-8.00MT	8.000000	30pf	5	10	10	2.5	.50	.44	.35
520-ZTT1000MT	ZTT-10.00MT	10.000000	30pf	5	10	10	2.5	.50	.44	.35
520-ZTT1200MT	ZTT-12.00MT	12.000000	30pf	5	10	10	2.5	.50	.44	.35
520-ZTT1600MX	ZTT-16.00MX	16.000000	30pf	5	10	10	2.5	.50	.44	.35
520-ZTT2000MX	ZTT-20.00MX	20.000000	30pf	5	10	10	2.5	.50	.44	.35

ZTA SERIES CERAMIC RESONATORS

The ZTA Series ceramic resonator offers wide frequency range and extended temperature range capabilities.

- Specifications:**
- Operating temp.: -20°C to +80°C
 - Frequency accuracy (@25°C): ±0.5%
 - Aging for 10 years: ±0.3%

- Features:**
- Low profile
 - Wide frequency range
 - Extended temperature range
 - High stability



DIMENSIONS: mm



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Dimensions				Price Each		
			W	L	H	L/S	1	10	100
520-ZTA358MG	ZTA-3.58MG	3.580000	5	10	7.5	5	.41	.37	.33
520-ZTA400MG	ZTA-4.00MG	4.000000	5	10	7.5	5	.41	.37	.33
520-ZTA800MT	ZTA-8.00MT	8.000000	5	10	10	5	.41	.37	.33
520-ZTA1000MT	ZTA-10.00MT	10.000000	5	10	10	5	.41	.37	.33
520-ZTA7.3728MT	ZTA-7.3728MT	7.3728	5	10	10	5	.41	.37	.33
520-ZTA1600MX	ZTA-16.00MX	16.000000	5	10	10	5	.41	.37	.33
520-ZTA2000MX	ZTA-20.00MX	20.000000	5	10	10	5	.41	.37	.33

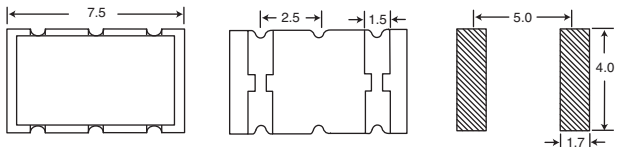
ECS-SR1-A SERIES SMD CERAMIC RESONATORS

The ECS-SR-A SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

- Specifications:**
- Operating temp.: -20°C to +80°C
 - Frequency accuracy (@25°C): ±0.5%
 - Aging for 10 years: ±0.3%

- Features:**
- Low profile
 - Wide frequency range
 - Extended temperature range
 - Height: 1.8 mm.

DIMENSIONS: mm

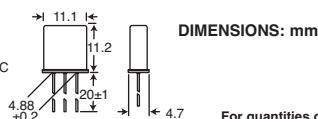


For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Resonant Resistance	Price Each		
				1	10	100
520-ECS-SR1-3.58A	ECS-SR1-3.58-A	3.58	40	.77	.66	.51
520-ECS-SR1-4.00A	ECS-SR1-4.00-A	4.00	40	.77	.66	.51
520-ECS-SR1-4.19A	ECS-SR1-4.19-A	4.19	40	.77	.66	.51
520-ECS-SR1-6.00A	ECS-SR1-6.00-A	6.00	40	.77	.66	.51
520-ECS-SR1-8.00A	ECS-SR1-8.00-A	8.00	40	.77	.66	.51

10.7 MHZ MONOLITHIC CRYSTAL FILTERS

- Specifications:**
- Operating temp.: -20°C to +70°C
 - Center Frequency: 10.7MHz



DIMENSIONS: mm



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	ECS Part No.	No. of Poles	Pass Band 3dB min. (KHz)	Ripple Max. (dB)	Insertion Loss Max. (dB)	Price Each		
						1	10	100
520-107-7.5A	ECS-10.7-7.5A	2	±3.75	0.5	1.5	3.68	3.31	3.13
520-107-7.5B	ECS-10.7-7.5B	4	±3.75	1.0	2.5	8.51	7.66	7.23
520-107-15A	ECS-10.7-15A	2	±7.5	0.5	2.0	2.19	1.97	1.86
520-107-15B	ECS-10.7-15B	4	±7.5	1.0	2.5	4.49	4.04	3.82



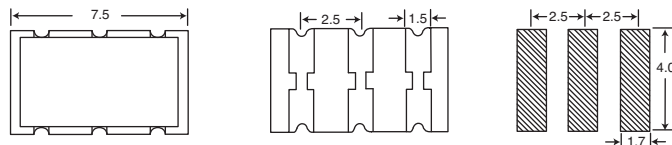
ECS-SR-B SERIES SMD CERAMIC RESONATORS

The ECS-SR-B Series SMD ceramic resonator includes a built in capacitor for simplification of oscillator circuits and reduces component count. The SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

- Specifications:**
- Operating temp.: -20°C to +80°C
 - Frequency accuracy (@25°C): ±0.5%
 - Aging for 10 years: ±0.3%

- Features:**
- Low profile
 - Wide frequency range
 - Extended temperature range
 - Built-in load capacitance
 - Height: 2.2 mm.

DIMENSIONS: mm



For quantities of 500 and up, call for quote.

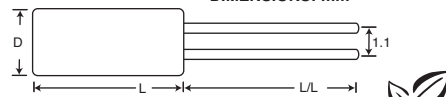
MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Load Cap.	Resonant Resistance	Price Each		
					1	10	100
520-ECS-SR1-3.58B	ECS-SR1-3.58-B	3.58	30pf	40	.82	.70	.54
520-ECS-SR1-4.00B	ECS-SR1-4.00-B	4.00	30pf	40	.77	.66	.51
520-ECS-SR1-4.19B	ECS-SR1-4.19-B	4.19	30pf	40	.82	.70	.54
520-ECS-SR1-6.00B	ECS-SR1-6.00-B	6.00	30pf	40	.82	.70	.54
520-ECS-SR1-8.00B	ECS-SR1-8.00-B	8.00	30pf	40	.82	.70	.54

MHZ RANGE CYLINDER TYPE CRYSTALS

This product represents our selection of miniature tubular high frequency crystals. They feature outstanding shock/vibration resistance and environmental characteristics.

- Features:**
- Cost effective
 - Excellent aging
 - Load Cap.: 18pf
 - Lead length: .394 in.
 - Wide frequency range
 - Excellent reliability

DIMENSIONS: mm



RoHS Compliant

For quantities of 500 and up, call for quote.

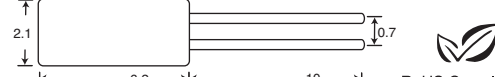
MOUSER STOCK NO.	ECS Part No.	Frequency (MHz)	Dimensions			Price Each		
			D	L	L/L	1	10	100
520-ECS-357-18-10X	ECS-35-18-10X	3.579545	3.2	10.5	10	.67	.61	.52
520-ECS-368-18-10X	ECS-36-18-10X	3.686400	3.2	10.5	10	.67	.61	.52
520-ECS-400-18-10X	ECS-40-18-10X	4.000000	3.2	10.5	10	.67	.61	.52
520-ECS-491-18-10X	ECS-49-18-10X	4.915200	3.2	10.5	10	.67	.61	.52
520-ECS-600-18-10X	ECS-60-18-10X	6.000000	3.2	10.5	10	.67	.61	.52
520-ECS-737-18-10X	ECS-73-18-10X	7.372800	3.2	10.5	10	.67	.61	.52
520-ECS-800-18-10X	ECS-80-18-10X	8.000000	3.2	10.5	10	.67	.61	.52
520-ECS-819-18-9X	ECS-81-18-9X	8.192000	3.2	9	10	.67	.61	.54
520-ECS-1000-18-9X	ECS-100-18-9X	10.000000	3.2	9	10	.67	.61	.52
520-ECS-1105-18-9X	ECS-110.5-18-9X	11.059000	3.2	9	10	.67	.61	.52
520-ECS-1200-18-9X	ECS-120-18-9X	12.000000	3.2	9	10	.67	.61	.52
520-ECS-1431-18-9X	ECS-143-18-9X	14.318180	3.2	9	10	.67	.61	.52
520-ECS-1474-18-9X	ECS-147-18-9X	14.745600	3.2	9	10	.67	.61	.54
520-ECS-1600-18-9X	ECS-160-18-9X	16.000000	3.2	9	10	.67	.61	.52
520-ECS-1843-18-9X	ECS-184-18-9X	18.432000	3.2	9	10	.67	.61	.52
520-ECS-2000-18-9X	ECS-200-18-9X	20.000000	3.2	9	10	.67	.61	.52
520-ECS-2457-18-9X	ECS-245-18-9X	24.576000	3.2	9	10	.67	.61	.54
520-ECS-2500-18-9X	ECS-250-18-9X	25.000000	3.2	9	10	.67	.61	.52
520-ECS-2700-18-9X	ECS-270-18-9X	27.000000	3.2	9	10	.67	.61	.52
520-ECS-3200-18-9X	ECS-320-18-9X	32.000000	3.2	9	10	.67	.61	.54
520-ECS-3276-18-9X	ECS-327-18-9X	32.768000	3.2	9	10	.67	.61	.54
520-ECS-4000-18-10X	ECS-400-18-10X	40.000000	3.2	10.5	10	.67	.61	.54
520-ECS-5000-18-9X	ECS-500-18-9X	50.000000	3.2	9	10	.67	.61	.54
520-ECS-6000-18-9X	ECS-600-18-9X	60.000000	3.2	9	10	.67	.61	.54
520-ECS-6666-18-9X	ECS-666-18-9X	66.666000	3.2	9	10	.67	.61	.54

ECS-31 SERIES KHZ RANGE CYLINDER TYPE CRYSTALS, 2X6

The ECS-31 Series features the same characteristics as the only tuning fork crystals offer. Because of their miniature size they are ideal for portable and communication equipment applications.

- Features:**
- Miniature size
 - Cost effective
 - Lead length: .394 in.
 - Long term stability
 - Load Cap.: 12.5pf

DIMENSIONS: mm



RoHS Compliant

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	ECS Part No.	Frequency (KHz)	Price Each		
			1	10	100
520-ECS-32-12.5-13X	ECS-.320-12.5-13X	32.00	.76	.69	.61
520-ECS-40-12.5-13X	ECS-.400-12.5-13X	40.00	.76	.69	.61
520-ECS-60-12.5-13X	ECS-.600-12.5-13X	60.00	.76	.69	.61
520-ECS-655-12.5-13X	ECS-.655-12.5-13X	65.50	.76	.69	.59
520-ECS-75-12.5-13X	ECS-.750-12.5-13X	75.00	.76	.69	.61
520-ECS-100-12.5-13X	ECS-1.00-12.5-13X	100.00	.76	.69	.59
520-ECS-153-12.5-13X	ECS-1.536-12.5-13X	153.60	.76	.69	.59

