

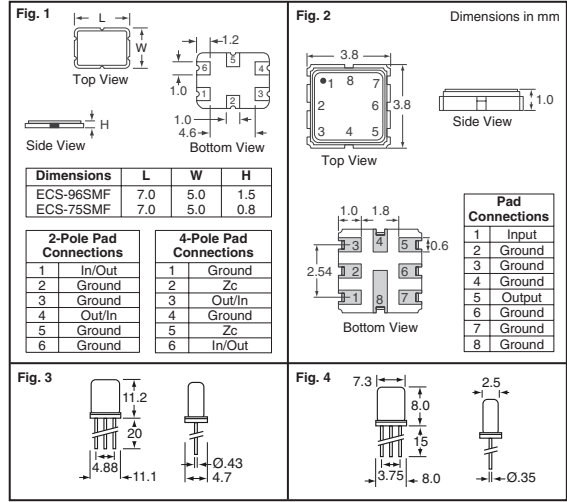
ECS INC. Monolithic Crystal Filters
INTERNATIONAL



Fig.	Center Freq. (MHz)	Passband (kHz)	No. of Poles	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
					1	10	100	Qty.	Pricing	
SMD										
1	21.4	15	2	X713CT-ND	8.74	7.26	5.79	1,000	4032.99	ECS-96SMF21A15
	21.4	30	2	X717CT-ND	9.93	8.94	7.45	500	2482.53	ECS-96SMF21A30
	45	30	2	X714CT-ND	12.62	10.49	8.35	1,000	5825.43	ECS-96SMF45A30
	45	7.5	4	X718CT-ND	33.45	30.11	25.09	500	8361.73	ECS-75SMF45A7.5B
	45	30	4	X719CT-ND	33.45	30.11	25.09	500	8361.73	ECS-75SMF45A30B
2	45	15	2	X720CT-ND	25.09	22.59	18.83	500	6273.54	ECS-38SMF45A15
	45	30	2	X721CT-ND	25.09	22.59	18.83	500	6273.54	ECS-38SMF45A30
Through-Hole										
3	10.7	7.5	2	X701-ND‡	6.21	5.17	4.12	—	—	ECS-10.7-7.5A
	10.7	7.5	4	X702-ND‡§	14.38	11.94	9.51	—	—	ECS-10.7-7.5B
	10.7	15	2	X703-ND‡	3.69	3.07	2.45	—	—	ECS-10.7-15A
	10.7	15	4	X704-ND‡§	7.58	6.30	5.01	—	—	ECS-10.7-15B
	10.7	30	2	X705-ND‡	5.05	4.20	3.34	—	—	ECS-10.7-30A
4	10.7	30	4	X706-ND‡§	10.49	8.72	6.94	—	—	ECS-10.7-30B
	21.4	7.5	2	X707-ND‡	5.25	4.36	3.47	—	—	ECS-21K-7.5A
	21.4	7.5	4	X708-ND‡§	12.24	10.17	8.10	—	—	ECS-21K-7.5B
	21.4	15	2	X709-ND‡	5.25	4.36	3.47	—	—	ECS-21K-15A
	21.4	15	4	X710-ND‡§	12.24	10.17	8.10	—	—	ECS-21K-15B
4	21.4	30	2	X711-ND‡	5.25	4.36	3.47	—	—	ECS-21K-30A
	21.4	30	4	X712-ND‡§	12.24	10.17	8.10	—	—	ECS-21K-30B

D

† For Tape and Reel part number, change CT-ND to TR-ND.
‡ Bulk
§ Through hole 4 pole filters are packaged in matched pairs.



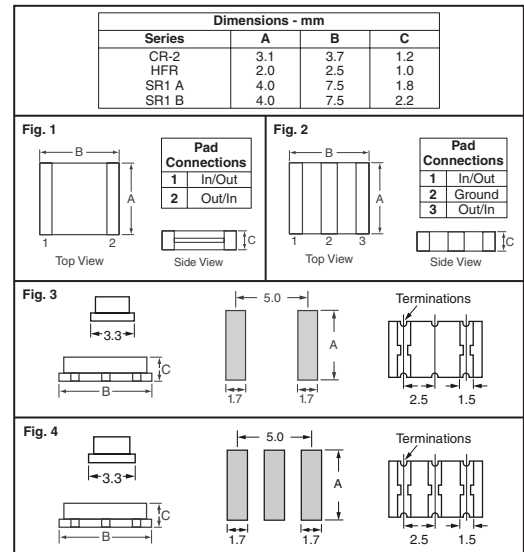
Ceramic Resonators — Surface Mount



CR-2 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C – 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Built-In Capacitance CR-2B: 10.0 – 12.0MHz 30pF, 16.0 – 20.0MHz 15pF ±20%
HFR Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20° – 80°C; 20.0 – 30.0MHz ±0.4%; 40.0 – 50.0MHz ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance HFR-B: 8pF ±20%
SR1 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C – 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance SR1-B: 30pF ±20%

Fig.	Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
				1	10	100	Qty.	Pricing	
1	ECS-CR2-A	10.00	XC1102CT-ND	.57	.52	.43	—	—	ECS-CR2-10.00-A-TR
	ECS-CR2-A	16.00	XC1104CT-ND	.57	.52	.43	1,000	286.15	ECS-CR2-16.00-A-TR
	ECS-CR2-A	20.00	XC1105CT-ND	.57	.52	.43	1,000	286.15	ECS-CR2-20.00-A-TR
2	ECS-CR2-B	10.00	XC1106CT-ND	.64	.58	.48	1,000	319.82	ECS-CR2-10.00-B-TR
	ECS-CR2-B	20.00	XC1109CT-ND	.64	.58	.48	1,000	319.82	ECS-CR2-20.00-B-TR
	ECS-HFR-B	30.00	XC1098CT-ND	.64	.58	.48	—	—	ECS-HFR-30.00-B-TR
3	ECS-SR1-A	3.58	X932CT-ND	.79	.68	.53	2,500	314.21/M	ECS-SR1-3.58-A-TR
	ECS-SR1-A	4.00	X933CT-ND	.79	.68	.53	2,500	314.21/M	ECS-SR1-4.00-A-TR
	ECS-SR1-A	4.19	X934CT-ND	.79	.68	.53	2,500	314.21/M	ECS-SR1-4.19-A-TR
	ECS-SR1-A	6.00	X935CT-ND	.79	.68	.53	2,500	314.21/M	ECS-SR1-6.00-A-TR
	ECS-SR1-A	8.00	X936CT-ND	.79	.68	.53	2,500	314.21/M	ECS-SR1-8.00-A-TR
4	ECS-SR1-B	3.58	X927CT-ND	.86	.75	.59	2,500	345.63/M	ECS-SR1-3.58-B-TR
	ECS-SR1-B	4.00	X928CT-ND	.86	.75	.59	2,500	345.63/M	ECS-SR1-4.00-B-TR
	ECS-SR1-B	4.19	X929CT-ND	.86	.75	.59	2,500	345.63/M	ECS-SR1-4.19-B-TR
	ECS-SR1-B	6.00	X930CT-ND	.86	.75	.59	2,500	345.63/M	ECS-SR1-6.00-B-TR
	ECS-SR1-B	8.00	X931CT-ND	.86	.75	.59	2,500	345.63/M	ECS-SR1-8.00-B-TR

† For Tape and Reel part number, change CT-ND to TR-ND.



Ceramic Resonators — Through Hole



ZTT Series with Built-In Load Capacitance: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C – 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance: 30pF ±20% **ZTA and ZTB Series:** • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C – 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Operating Temperature: -20°C – 80°C

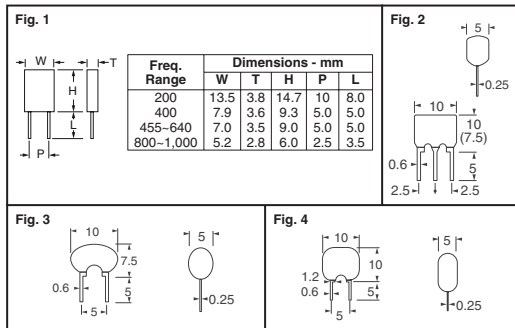


Fig.	Model/Series	Frequency	Digi-Key Part No.	Price Each			ECS Part No.
				1	10	100	
1	ZTB	200kHz	X919-ND	.94	.79	.63	ZTB200D
	ZTB	400kHz	X920-ND	.76	.64	.51	ZTB400P
	ZTB	455kHz	X921-ND	.76	.64	.51	ZTB455E
	ZTB	500kHz	X922-ND	.76	.64	.51	ZTB500E
	ZTB	540kHz	X923-ND	.76	.64	.51	ZTB540P
	ZTB	640kHz	X924-ND	.76	.64	.51	ZTB640P
	ZTB	800kHz	X925-ND	.76	.64	.51	ZTB800J
	ZTB	1,000kHz	X926-ND	.76	.64	.51	ZTB1000J
	2	ZTT	3.58MHz	X901-ND	.61	.51	.41
ZTT		3.68MHz	XC1017-ND	.56	.51	.41	ZTT-3.68MG
ZTT		4MHz	X902-ND	.61	.51	.41	ZTT-4.00MG
ZTT		4.19MHz	X903-ND	.61	.51	.41	ZTT-4.19MG
ZTT		6MHz	XC1733-ND NEW!	.56	.51	.41	ZTT-6.00MG
ZTT		8MHz	X905-ND	.61	.51	.41	ZTT-8.00MT
ZTT		10MHz	X906-ND	.61	.51	.41	ZTT-10.00MT
ZTT		12MHz	X907-ND	.61	.51	.41	ZTT-12.00MT
ZTT		16MHz	X908-ND	.61	.51	.41	ZTT-16.00MX
ZTT		20MHz	X909-ND	.61	.51	.41	ZTT-20.00MX
3		ZTA	3.58MHz	X910-ND	.55	.46	.37
	ZTA	4MHz	X911-ND	.55	.46	.37	ZTA-4.00MG
	ZTA	4.19MHz	X912-ND	.55	.46	.37	ZTA-4.19MG
	ZTA	6MHz	XC1732-ND NEW!	.50	.46	.37	ZTA-6.00MG
4	ZTA	6MHz	X913-ND	.55	.46	.37	ZTA-6.00MT
	ZTA	8MHz	X914-ND	.55	.46	.37	ZTA-8.00MT
	ZTA	10MHz	X915-ND	.55	.46	.37	ZTA-10.00MT
	ZTA	12MHz	X916-ND	.55	.46	.37	ZTA-12.00MT
	ZTA	16MHz	X917-ND	.55	.46	.37	ZTA-16.00MX
	ZTA	20MHz	X918-ND	.55	.46	.37	ZTA-20.00MX

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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