

**T.M.C. SYSTEMS (ARIZ.) INC.**  
 930 WEST 23RD STREET TEMPE, ARIZONA 85281  
 PHONE (602) 967-7875 TWX 910-950-1943

# CRYSTALS

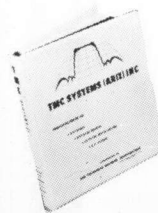
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# CRYSTAL FILTERS

BELOW IS A PARTIAL LISTING OF FILTERS THAT HAVE BEEN BUILT IN PRODUCTION QUANTITIES.

CENTER FREQUENCY	PASSBAND	STOPBAND BANDWIDTH	CASE SIZE IN INCHES	MAXIMUM INSERTION LOSS	SOURCE & LOAD Z (Ohms)	PART NUMBER
10.0000 KHz	75 Hz USB	250 Hz at 40 DB	1 1/2 x 4 x 3	10 DB	1K	FIL-0228
16.0000 KHz	40 Hz SYM	2 KHz at 30 DB	2 x 2 x .75	4.5 DB	600	FIL-0055
19.2750 KHz	217 Hz SYM	1120 Hz at 20 DB	1.75 x 1.75 x 3.5	10 DB	10K	FIL-0030
27.7000 KHz	50 Hz SYM	250 Hz at 50 DB	2 1/4 x 4 x 1.5	1 DB	12K - 10K	FIL-0244
61.1500 KHz	600 Hz SYM	2300 Hz at 70 DB	1 x 2 x 3 1/2	4 DB	1.8K - 8.2K	FIL-0273
100.0000 KHz	10 KHz SYM	120 Hz at 40 DB	1 1/4 x 1 x 1.75	5 DB	1500	FIL-0283
100.0000 KHz	500 Hz SYM	1400 Hz at 55 DB	1.34 x 4 x 2.2	3.9 DB	27K	FIL-0085
100.0000 KHz	2790 Hz USB	4790 Hz at 70 DB	2.5 x 3.5 x 2	3 DB	330	FIL-0095
100.0000 KHz	2790 Hz LSB	4790 Hz at 70 DB	2.5 x 3.5 x 2	3 DB	330	FIL-0097
100.0000 KHz	250 Hz SYM	1 KHz at 60 DB	2 x 3 1/2 x .75	3 DB	330	FIL-0099
100.0000 KHz	4000 Hz USB	7250 Hz at 60 DB	2 x 3 1/2 x 1.125	2 DB	10K - 1K	FIL-0001
100.0000 KHz	4000 Hz LSB	7250 Hz at 60 DB	2 x 3 1/2 x 1.125	2 DB	10K - 1K	FIL-0002
100.0000 KHz	5700 Hz USB	6600 Hz at 70 DB	2.5 x 3.5 x 2	3 DB	330	FIL-0269
100.0000 KHz	5700 Hz LSB	6600 Hz at 70 DB	2.5 x 3.5 x 2	3 DB	330	FIL-0270
125.0000 KHz	±10 Hz at 3 DB	3 Hz at 50 DB notch	2 x 6 x 2.5	3 DB	1K	FIL-0131
250.0000 KHz	18000 Hz at 1 DB	30 Hz at 30 DB notch	2 1/2 x 2 x 2.5	2 DB	12K	FIL-0008
250.0000 KHz	2780 Hz USB	3500 Hz at 60 DB	1.875 x 2.750 x .650	4 DB	500	FIL-0127
250.0000 KHz	5750 Hz USB	6520 Hz at 60 DB	2 x 2.5 x .8	4 DB	500	FIL-0222
250.0000 KHz	5750 Hz LSB	6520 Hz at 60 DB	2 x 2.5 x .8	4 DB	500	FIL-0223
250.0000 KHz	8250 Hz USB	16 KHz at 40 DB	2 x 2 1/2 x 3 1/2	7 DB	10K	FIL-0010
250.0000 KHz	8250 Hz LSB	16 KHz at 40 DB	2 x 2 1/2 x 3 1/2	7 DB	10K	FIL-0009
455.0000 KHz	300 Hz SYM	1700 Hz at 60 DB	.5 x 2 3/4 x .753	14 DB	100K	FIL-0063
455.0000 KHz	100 & 1000 Dual Sym	1 KHz & 5 KHz at 60 DB	1.45 x 3.5 x 1	4 & 7 DB	2.5K	FIL-0100
455.0000 KHz	10000 Hz SYM	50 KHz at 60 DB	1 x 3.5 x 1	8 DB	250K - 500	FIL-0274
500.0000 KHz	2 KHz SYM	5 KHz at 40 DB	.6 x 4.66 x 1.5	7 DB	50 - 500	FIL-0317
500.0000 KHz	6 KHz SYM	35 KHz at 60 DB	1 x 1 x 3.5	8 DB	2K	FIL-0345
500.0000 KHz	12 KHz SYM	30 KHz at 60 DB	1 x 1 x 3.5	8 DB	2K	FIL-0344
500.0000 KHz	22 KHz SYM	75 KHz at 60 DB	1 x 1 x 3.5	8 DB	2K	FIL-0343
625.0000 KHz	12 KHz SYM	72 KHz at 60 DB	.8 x 1.25 x 3.5	10 DB	500	FIL-0365
1.000000 MHz	900 Hz SYM	24 KHz at 50 DB	1 x 2 1/4 x 1 1/4	3 DB	50K	FIL-0043
1.250000 MHz	12 KHz SYM	72 KHz at 60 DB	.8 x 1.25 x 5.5	10 DB	500	FIL-0366
1.600000 MHz	750 Hz SYM	4 KHz at 60 DB	1 x 2 1/4 x 1 1/4	6 DB	9K	FIL-0031
1.600000 MHz	2800 Hz SYM	15.2 KHz at 60 DB	1 x 2 1/4 x 1 1/4	6 DB	9K	FIL-0005
1.750000 MHz	2750 Hz USB	4500 KHz at 60 DB	1 x 1.12 x 3.38	3 DB	10K - 500	FIL-0107
1.750000 MHz	2750 Hz LSB	4500 KHz at 60 DB	1 x 1.12 x 3.38	3 DB	10K - 500	FIL-0108
2.003000 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	1.5 DB	50	FIL-0102
2.500000 MHz	12 KHz SYM	72 KHz at 60 DB	.8 x 1.25 x 3.5	10 DB	500	FIL-0367
4.505000 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	1.5 DB	50	FIL-0299
5.000000 MHz	12 KHz SYM	72 KHz at 60 DB	.8 x 2.5 x 1.25	10 DB	500	FIL-0368
5.000000 MHz	15000 Hz SYM	42 KHz at 60 DB	1 x 2.37 x 1.03	6 DB	50	FIL-0388
5.000000 MHz	50000 Hz SYM	250 KHz at 50 DB	1 x 2.37 x 1.03	8 DB	50	FIL-0377
5.750000 MHz	3000 Hz at 3 DB	450 Hz at 60 DB notch	1 x 3.5 x 1	2 DB	50	FIL-0230
5.929000 MHz	14000 Hz SYM	72 KHz at 25 DB	.93 x 1.68 x .75	3 DB	470	FIL-0112
6.290000 MHz	500 Hz SYM	20 KHz at 60 DB	.625 x 2 1/8 x .750	6 DB	470	FIL-0044
6.400000 MHz	8000 Hz SYM	20 KHz at 60 DB	.825 x 3 x .562	3 DB	2.8K - 150	FIL-0003
8.242800 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	2 DB	50	FIL-0134
10.000000 MHz	12 KHz SYM	72 KHz at 60 DB	1 1/4 x 2 1/8 x 1 1/8	3 DB	50	FIL-0267
10.000000 MHz	6300 Hz SYM	63 KHz at 40 DB	1 x 1.77 x .88	6 DB	50 - 500	FIL-0039
10.000000 MHz	36000 Hz SYM	160 KHz at 60 DB	1 x 2.5 x 1	3 DB	100	FIL-0035
10.1250 MHz	40 KHz SYM	80 KHz at 50 DB	.7 x 2.2 x .7	4 DB	50	FIL-0375
10.7000 MHz	70000 Hz SYM	140 KHz at 60 DB	1.31 x 2.35 x .782	8 DB	50	FIL-0231
11.5000 MHz	50 KHz SYM	450 KHz at 60 DB	1/2 x 1.27 x .718	4 DB	1K	FIL-0288
12.3000 MHz	3200 Hz SYM	52 KHz at 20 DB	.93 x 1.68 x .75	2 DB	470	FIL-0113
12.4035 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	2 DB	50	FIL-0313
13.4180 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	2 DB	50	FIL-0295
15.5420 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	2 DB	50	FIL-0296
16.5335 MHz	7500 Hz SYM	17.5 KHz at 60 DB	1.75 x 3.75 x 1.25	2 DB	50	FIL-0314
21.9530 MHz	1600 Hz SYM	20 KHz at 50 DB	1 x 1.5 x .875	5 DB	2K	FIL-0028

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