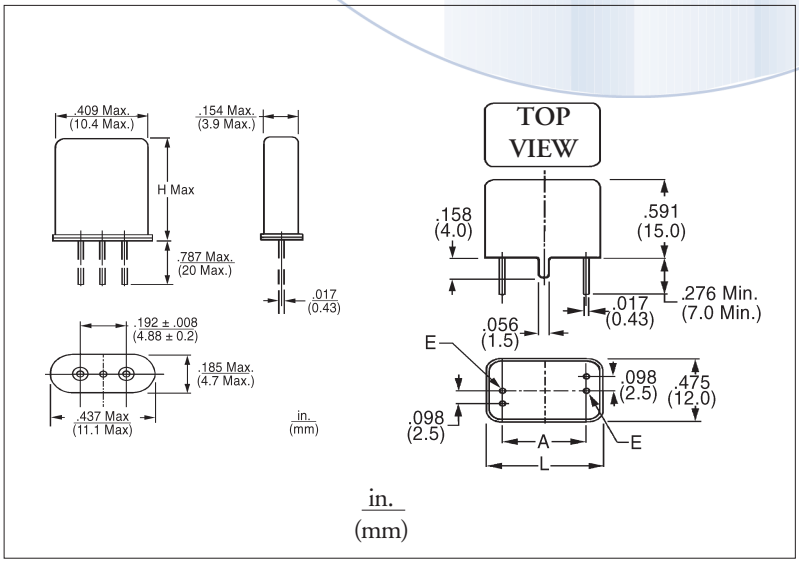
Thru-Hole

CRYSTAL FILTERS
TMCF 21.4 Series Filter

Operating Temperature Range -30 to 75°C

Model	Poles	Pass Band db/kHz	Stop Band db/kHz	Ripple dB	Loss dB	Guaranteed Attenuation dB	Terminating Impedance (Ω // pF)	Case Code
T21M 7.5A	2	3 ±3.75	18 ±14	0.5	2.0	20	0.85//5.0	A-5
T21M 7.5B	4	3 ±3.75	40 ±14	1.0	2.5	40	0.85//5.0	A-5 x2
T21M 7.5C	6	3 ±3.75	60 ±12.5	2.0	3.0	60	0.85//5.0	D-5
T21M 7.5D	8	3 ±3.75	80 ±12.5	2.0	4.0	90	0.85//5.0	E-5
T21M 12A	2	3 ±6.0	18 ±23	0.5	2.0	20	1.2//2.5	A-5
T21M 12B	4	3 ±6.0	40 ±20	1.0	2.5	40	1.2//2.0	A-5 x2
T21M 12C	6	3 ±6.0	60 ±20	2.0	3.0	65	1.6//2.0	D-5
T21M 12D	8	3 ±6.0	80 ±20	2.0	4.0	90	1.2//2.5	E-5
T21M 15A	2	3 ±7.5	18 ±25	0.5	1.5	20	1.5//2.0	A-5
T21M 15B	4	3 ±7.5	40 ±25	1.0	2.0	40	1.5//2.0	A-5 x2
T21M 15C	6	3 ±7.5	60 ±25	2.0	2.5	65	1.5//2.0	D-5
T21M 15D	8	3 ±7.5	80 ±25	2.0	3.0	90	1.5//2.0	E-5
T21M 20A	2	3 ±10	18 ±34	0.5	1.5	20	2.2//1.0	A-5
T21M 20B	4	3 ±10	40 ±34	1.0	2.0	40	2.2//1.0	A-5 x2
T21M 30A	2	3 ±15	15 ±50	0.5	1.5	20	3.0//0.0	A-5
T21M 30B	4	3 ±15	30 ±45	1.0	2.0	40	3.0//0.0	A-5 x2
T21N 15A	2	3 ±7.5	18 ±25	0.5	2.0	20	1.5//2.0	A-8
T21N 16A	2	3 ±7.5	18 ±25	0.5	2.0	20	1.6//1.0	A-8
T21N 20A	2	3 ±10	13 ±34	1.0	2.0	20	1.5//2.0	A-8
T26M 17A (1)	2	3 ±8.5	14 ±25	0.5	2.5	12	1.1//1.5	A-5
T29N 20A (2)	2	3 ±10	10 ±24.5	0.5	2.0	12	1.6//1.5	A-8

Note (1): Center frequency is 26.00 MHz.
Note (2): Center Frequency is 29.00 MHz.
Note (3): A-5 x2 is a pair of A-5 crystals matched to achieve multiple poles.



Case Code	H	Holder
A-5	0.319 (8.1)	UM-1
A-8	0.236 (6.0)	UM-5

Case Code	A	L
D-5	0.43	0.291
	(11.0)	(7.4)
E-5	0.386	0.528
	(13.4)	(9.8)

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