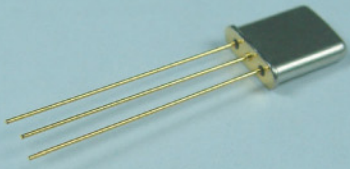


FILTER

UM1-3, UM5-3, C2, D2

- Monolithic crystal filter
- Compactness and light weight
- Stable temperature characteristics
- Outstanding vibration and shock resistant characteristics
- Amount of attenuation is high in the attenuating range



UM TYPE

ELECTRICAL SPECIFICATIONS

Nominal frequency		21.400 / 21.450 /				21.600 / 21.700 / 26.050			/ 29.250MHz	
Model	NO of pole	Pass Bandwidth (dB) (kHz)	Stop Bandwidth (dB) (kHz)	Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (dB)	Terminating Impedance (k Ω //pF)	Package		
21M7.5A	2	3 \pm 3.75	18 \pm 14	0.5	2.0	20	0.85//5	UM1-3		
21M7.5B	4	3 \pm 3.75	40 \pm 14	1.0	2.5	40	0.85//5	UM1-3X2		
21M7.5C	6	3 \pm 3.75	60 \pm 12.5	2.0	3.0	60	0.85//5	C2		
21M7.5D	8	3 \pm 3.75	80 \pm 12.5	2.0	4.0	90	0.85//5	D2		
21M12A	2	3 \pm 6	18 \pm 23	0.5	2.0	20	1.2//2.5	UM1-3		
21M12B	4	3 \pm 6	40 \pm 20	1.0	2.5	40	1.2//2.5	UM1-3X2		
21M12C	6	3 \pm 6	60 \pm 20	2.0	3.0	65	1.6//2.0	C2		
21M12D	8	3 \pm 6	80 \pm 20	2.0	4.0	90	1.2//2.5	D2		
21M15A	2	3 \pm 7.5	18 \pm 25	0.5	1.5	20	1.5//2.0	UM1-3		
21M15B	4	3 \pm 7.5	40 \pm 25	1.0	2.0	40	1.5//2.0	UM1-3X2		
21M15C	6	3 \pm 7.5	60 \pm 25	2.0	2.5	65	1.5//2.0	C2		
21M15D	8	3 \pm 7.5	80 \pm 25	2.0	3.0	90	1.5//2.0	D2		
21M20A	2	3 \pm 10	18 \pm 34	0.5	1.5	20	2.2//1	UM1-3		
21M20B	4	3 \pm 10	40 \pm 34	1.0	2.0	40	2.2//1	UM1-3X2		
21M30A	2	3 \pm 15	15 \pm 50	0.5	1.5	20	3.0//0	UM1-3		
21M30B	4	3 \pm 15	30 \pm 45	1.0	2.0	40	3.0//0	UM1-3X2		
21N15A	2	3 \pm 7.5	18 \pm 25	0.5	2.0	20	1.5//2.0	UM5-3		
21N16A1	2	3 \pm 7.5	18 \pm 25	0.5	2.0	20	1.6//1.0	UM5-3		
21N20A	2	3 \pm 10	13 \pm 43	1.0	2.0	20	1.5//2.0	UM5-3		
26M17A	2	3 \pm 8.5	14 \pm 25	0.5	2.5	12	1.1//1.5	UM1-3		
29N20A	2	3 \pm 10	10 \pm 24.5	0.5	2.0	12	1.6//1.5	UM5-3		

Nominal frequency		45.000 / 44.9965 / 45.0375MHz							
45M15A	2	3 \pm 7.5	18 \pm 28	1.0	2.0	40	3.0//1.5	UM1-3	
45M15B	4	3 \pm 7.5	40 \pm 30	1.0	3.0	70	3.0//1	UM1-3X2	
45M20B	4	3 \pm 10	30 \pm 35	1.0	3.0	70	5.0//1.0	UM1-3X2	
45M30A	2	3 \pm 15	15 \pm 45	1.0	2.0	40	8.0//1.5	UM1-3	
45M30B	4	3 \pm 15	30 \pm 50	1.0	3.0	70	8.0//1.5	UM1-3X2	
45F15A	2	3 \pm 7.5	15 \pm 25	1.0	2.0	40	0.65//5	UM1-3	
45F15B	4	3 \pm 7.5	30 \pm 25	1.5	3.0	70	0.65//3	UM1-3X2	
45F20B	4	3 \pm 10	30 \pm 35	1.0	3.0	70	0.7//1.5	UM1-3X2	
45F30A	2	3 \pm 15	18 \pm 35	1.0	2.0	40	1.2//1.5	UM1-3	
45F30B	4	3 \pm 15	30 \pm 50	1.5	3.0	70	1.2//1.0	UM1-3X2	

MECHANICAL DIMENSIONS

