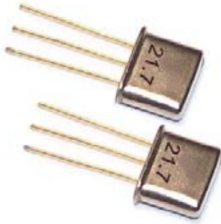




MONOLITHIC CRYSTAL FILTER

单片晶体滤波器



UM-1、UM-5 DIP TYPE

- High stability for wide temperature ranges
- Wide frequency ranges
- RoHS Compliant (Pb Free)



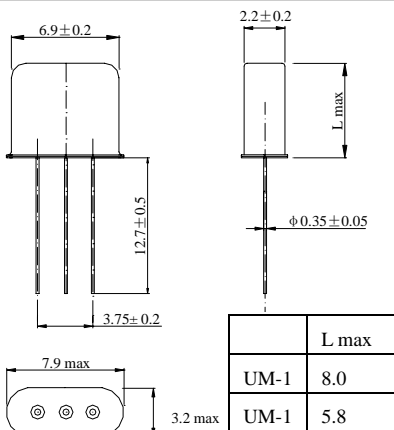
RoHS compliant

★ PARAMETERS 技术参数

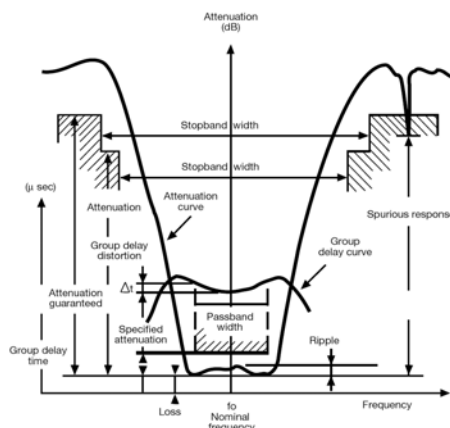
Model	Centre Frequency Fc (MHz)	Pass Band Width (KHz/dB)	Stop Band Width (KHz/dB)	Pass Band Ripple (dB) max	Insertion Loss (dB) max	Terminal Impedance Zt/C(Ω//pF)	Operating Temperature Range	Mode of oscillator	Pole
HL21M07A	21.400	±3.75/3	±14.0/18	0.5	1.5	850//7	-20~+70°C	Fund	2
HL21M09A	21.400	±4.50/3	±12.5/14	0.5	1.5	850//7	-20~+70°C	Fund	2
HL21M12A	21.400	±6.00/3	±20.0/15	0.5	1.5	1200//2.5	-20~+70°C	Fund	2
HL21M15A1	21.400	±7.50/3	±25.0/18	0.5	1.5	1500//3	-20~+70°C	Fund	2
HL21M15A2	21.400	±7.50/3	±30.0/18	0.5	2.0	1500//3	-20~+70°C	Fund	2
HL21M15A3	21.400	±7.50/3	±30.0/18	1.0	2.0	1500//2	-20~+70°C	Fund	2
HL21M20A	21.400	±10.0/3	±25.0/10	0.5	1.5	1800//1.5	-20~+70°C	Fund	2
HL21M30A	21.400	±15.0/3	±45.0/15	0.5	1.5	3000//0.5	-20~+70°C	Fund	2
HL21P07A	21.600	±3.75/3	±14.0/18	0.5	1.5	850//5	-20~+70°C	Fund	2
HL21P12A	21.600	±6.00/3	±20.0/15	0.5	1.5	1200//2.5	-20~+70°C	Fund	2
HL21P15A	21.600	±7.50/3	±25.0/18	0.5	1.5	1500//3	-20~+70°C	Fund	2
HL21T07A1	21.700	±3.75/3	±14.0/18	0.5	1.5	850//5	-20~+70°C	Fund	2
HL21T07A2	21.700	±3.75/3	±15.0/18	0.5	1.5	850//6	-20~+70°C	Fund	2
HL21T09A	21.700	±4.50/3	±12.5/14	0.5	1.5	1500//4	-20~+70°C	Fund	2
HL21T12A	21.700	±6.00/3	±20.0/15	0.5	1.5	1200//2.5	-20~+70°C	Fund	2
HL21T15A	21.700	±7.50/3	±25.0/18	0.5	1.5	1500//3	-20~+70°C	Fund	2
HL21T20A	21.700	±10.0/3	±25.0/10	0.5	1.5	1800//1.5	-20~+70°C	Fund	2
HL21T30A	21.700	±15.0/3	±45.0/15	0.5	1.5	3000//0.5	-20~+70°C	Fund	2
HL21S07A	21.750	±3.75/3	±25.0/18	0.5	1.5	1500//3	-20~+70°C	Fund	2
HL23M07A	23.050	±3.75/3	±12.5/16	0.5	1.5	1600//5	-20~+70°C	Fund	2
HL23M15A	23.050	±7.50/3	±25.0/18	0.5	1.5	1500//3	-20~+70°C	Fund	2
HL30M15A	30.875	±7.50/3	±25.0/15	0.5	1.5	800//6	-20~+70°C	Fund	2
HL45M07A	45.000	±3.75/3	±12.5/10	0.5	1.5	510//5.5	-20~+70°C	Fund	2
HL45M15A	45.000	±7.50/3	±25.0/14	0.5	1.5	550//3	-20~+70°C	Fund	2
HL45M30A	45.000	±15.0/3	±50.0/10	0.5	1.5	510//5.5	-20~+70°C	Fund	2

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★ DIMENSIONS 外形尺寸



★ PASS BAND FILTER SPEC-DRAWING



★ TEST CIRCUIT 测试线路

