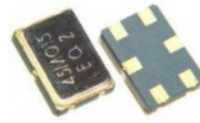


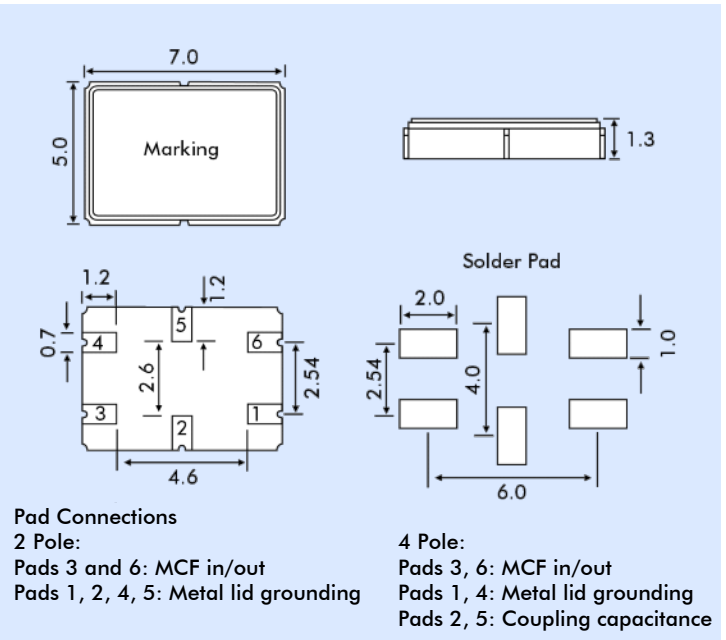
- Compact and light weight
- Excellent shock and vibration resistance
- Suitable for auto pick and place, solder reflow capable
- Designed for mobile, wireless comms, pagers, cellular etc.



OUTLINE & DIMENSIONS

ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

RoHS Status:	RoHS compliant and pB free
Gross Leak:	60s minimum at +125°C in D.I. water or fluoro carbon fluid.
Shock:	Half sine wave, acceleration of 100g peak amplitude for 11ms duration, 3 cycles in each plane.
Vibration:	±5ppm maximum, frequency 10Hz to 55Hz, amplitude 1.5mm or 10gs r.m.s. Duration 6 hours
Drop Test:	Three drops onto hard wood board from 75cm. 3 random drops.
Humidity:	After 48 hours at 85°C, 85% relative humidity, non-condensing
Thermal Shock:	Temperature cycling, exposed to -40° for 30 minutes then at +85°C for 30 minutes, duration of 5 days
Operating Temperature Range:	-20° to +70°C
Storage Temperature Range:	-40° to +85°C



SPECIFICATIONS

Frequency (MHz)	Model	No. of Poles	Pass Bandwidth dB kHz	Stop Bandwidth dB kHz	Ripple dB max.	Insertion Loss dB max.	Guaranteed Attenuation dB kHz	Terminating Impedance Ohms//pF	Cc(pF)
21.400	21MQ7.5A	2	3 ±3.75	20 ±18	1.0	2.0	70 -910	850 // 6.0	
21.400	21MQ15A	2	3 ±7.5	18 ±25	0.5	1.5	70 -910	1500 // 2.5	
21.400	21MQ15B	4	3 ±7.5	40 ±25	1.0	3.0	70 -910	1800 // 0.35	5.0
21.400	21MQ30A	2	3 ±15	15 ±50	1.5	2.0	50 -910	2500 // 0	
21.700	21.7MQ15A	2	3 ±7.5	18 ±28	1.0	2.0	70 -910	1500 // 2.5	
21.700	21.7MQ15B	4	3 ±7.5	40 ±25	1.0	3.0	70 -910	1750 // 0.35	5.0
27.000	21.7MQ30A	2	3 ±15	15 ±50	1.5	2.0	50 -910	2500 // 0	
45.000	45MQ15A	2	3 ±7.5	15 ±25	1.0	2.0	70 -910	560 // 6.0	
45.000	45MQ15B	4	3 ±7.5	30 ±25	1.0	3.0	80 -910	600 // 2.3	7.5
45.000	45MQ30A	2	3 ±15	15 ±60	1.0	2.0	70 -910	1200 // 1.8	
45.000	45MQ30B	4	3 ±15	30 ±40	1.0	3.0	70 -910	1200 // 1.0	2.5

PART NUMBER FORMAT

Example: 21MQ7.5A

Centre Frequency Code
 21M = 21.4MHz
 21.7M = 21.700MHz
 45M = 45.000MHz

Q: Package style 7.0 x 5.0 x 1.3mm SMD

Pass Bandwidth (at 3dB min.)
 7.5 = ±3.75kHz
 15 = ±7.5kHz
 30 = ±15kHz

Poles code
 A = 2 poles (1 piece)
 B = 4 poles (2 pieces)