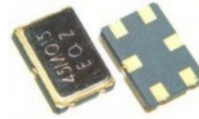


SMD TYPE 'Q' Series 2 & 4 poles 21.4, 21.7, 45.0 and 50.85MHz

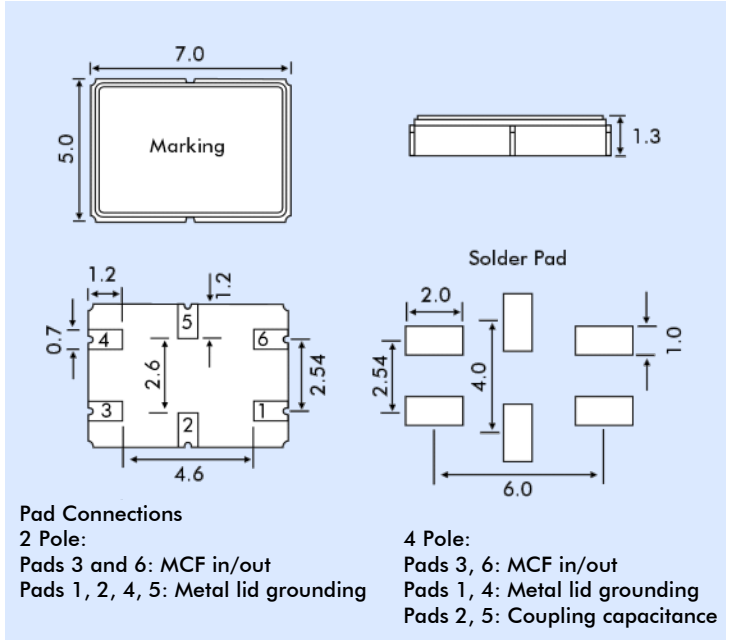
- Compact and light weight
- Excellent shock and vibration resistance
- Suitable for auto pick and place, solder reflow capable
- Designed for mobile, wireless comms, pagers, cellular etc.



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		Stop Bandwidth		Ripple	Insertion Loss	Guaranteed Attenuation		Terminating Impedance	
			dB	kHz	dB	kHz	dB max.	dB max.	dB	kHz	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	
21.700	21.7MQ30A	2	3	±15	15	±50	1.5	2.0	50	-910	2500 // 0	
45.000	45MQ7.5A	2	3	±3.75	15	±18	1.0	2.0	70	-910	350 // 6.0	
45.000	45MQ7.5B	4	3	±3.75	40	±15	1.0	4.0	80	-910	300 // 5.0	16.0
45.000	45MQ15A	2	3	±7.5	15	±25	1.0	2.0	70	-910	560 // 6.0	
45.000	15MQ15B	4	3	±7.5	30	±25	1.0	3.0	80	-910	600 // 2.3	8.0
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	
50.850	50.85MQ15B	4	3	±7.5	35	±25	1.0	3.0	80	-910	620 // 0.5	5.0

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)