

**4.0X2.5X0.75 mm
Features**



- Compact and thin (4.0X2.5X0.75 mm typ.)
- Prepared frequencies can meet most of bluetooth chipsets
- Excellent electric performance optimum for mobilephone and bluetooth applications are exhibited
- Excellent heat resistance and shock resistance
- Products that are lead-free. These can meet the requirement of re-flow profiling using lead-free solder

Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	Fo	-	12	-	32	MHz
Frequency Tolerance at 25°	$\Delta F / F_0$	At 25 °C	± 10	± 15	± 30	ppm
Temperature Stability	Tc	REF TO 25°C	± 10	± 15	± 30	ppm
Operating Temperature Range	TOPR	-	-20	-	+70	°C
Storage Temperature Range	TSTG	-	-40	-	+85	°C
Shunt Capacitance	Co	-	-	-	3	pF
Load Capacitance	CL	-	8	-	12	pF
Insulator Resistance	IR	100 VDC	500	-	-	M Ω
Drive Level	DL	-	10	100	300	μ W
Aging (at 25°C)	Fa	AT 25°C, per year	-2.0	-	+2.0	ppm

Equivalent Series Resistance (ESR) & Mode of Vibration (Mode)

Frequency Range	Max ESR (Ω)	Mode
12.000MHz to 19.999MHz	80	Fundamental
20.000MHz to 25.999MHz	70	Fundamental
26.000MHz to 32.000MHz	50	Fundamental

Mechanical Dimensions (mm)

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