

FEATURE

- Wide Frequency range
- High shock tolerance
- Small size
- Reliable frequency stability

APPLICATIONS

- Microprocessor Systems
- Consumer Electronics
- Instrumentation
- Automotive electronics



ELECTRICAL SPECIFICATIONS

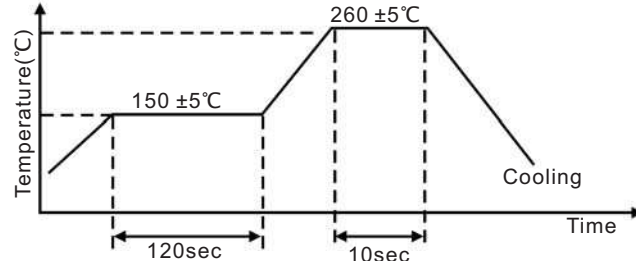
Frequency	30.000KHz ~ 100.000KHz
Frequency Tolerance(at 25°C)	±10ppm to ±100ppm
Temperature Coefficient	-0.035±0.01ppm/°C
Load Capacitance(C _L)	12.5pF Typical
Equivalent Series Resistance	See Below Table
Turnover Temperature	25±5°C
Operating Temperature Range	-10°C ~ +60°C to -40°C ~ +85°C
Storage Temperature Range	-40°C ~ +85°C
Shunt Capacitance(C ₀)	1.75pF Typical
Dynamic Capacitance(C ₁)	0.0035pF Typical
Drive Level(Typical)	1 μW Max
Insulation Resistance	500MΩ Min at DC100V±15V
Aging @25°C 1 st year (Max)	±5ppm/year

EQUIVALENT SERIES RESISTANCE(ESR)

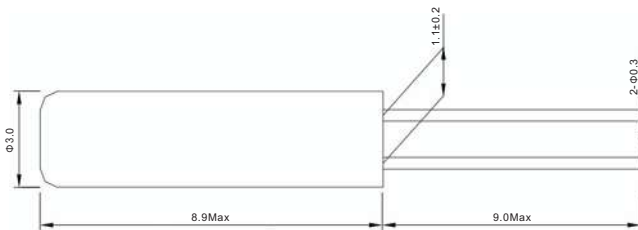
Frequency(KHz)	E.S.R(Ω)	Frequency(KHz)	E.S.R(Ω)
30.000~39.999	50K Max	40.000~100.000	40K Max

REFLOW SOLDERING PROFILE

Total time: 200 sec Max
Solder melting point: 185°C



DIMENSIONS



Frequency Stability Over Operating Temperature Range

Temperature Range	Frequency Stability (ppm)		
	±50ppm	±100ppm	±150ppm
-10~+60°C	✓	✓	✓
-20~+70°C	✓	✓	✓
-40~+85°C			✓

PART NUMBER

TF38- (Tuning Fork 3*8)	32.768 Frequency 32.768KHZ	-	12.5 Load Capacitance 12.5 pF	-	30 Frequency Tolerance ±30ppm	-	50 Frequency Stability ±50ppm	-	A Operating Temperature Range A:-20~70°C B:-10~60°C E:-40~85°C
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