

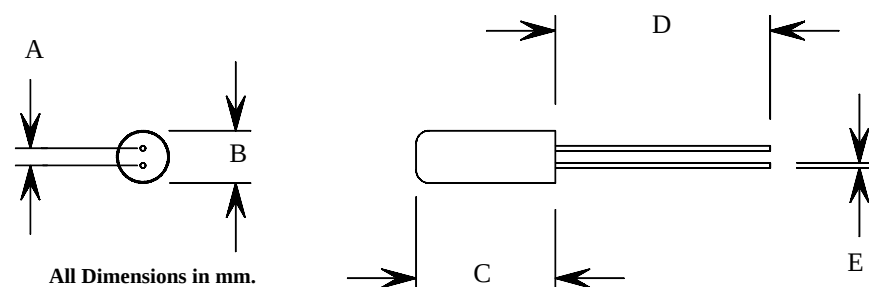
ELECTRICAL SPECIFICATIONS

Environmental/Mechanical Specifications on page F5 Revision: 1994-D

Frequency	32.768kHz (All Packages) 20.000kHz to 200.000kHz (AWT2 Package Only)
Frequency Tolerance	±20ppm Max. (32.768kHz .. All packages)
Parabolic Curvature Constant	±20ppm Max. (20.000kHz to 200.000kHz ±30ppm Max.) -0.04ppm/(Δ°C) ² Max.
Turnover Temperature	25°C ±5°C
Temperature Coefficient / Frequency Stability	-0.034 ±0.006ppm/(°C ²)x2
Operating Temperature Range	-10°C to 60°C
Storage Temperature Range	-40°C to 85°C
Load Capacitance	12.5pF or 6pF
Frequency Stability	-.034±0.006ppm / (25-T)x2
Resistance AWT Series AWT2 Series AWT3 Series	30,000 Ohms Max 40,000 Ohms Max 40,000 Ohms Max
Q Factor	50,000 Min.
Drive Level	1μWatt Maximum
Shunt Capacitance	AWT=1.60pF Typ., AWT2=1.35pF Typ., AWT3=1.00pF Typ.
Motional Capacitance	AWT=3.5fF Typ., AWT2=3.0fF Typ., AWT3=2.5fF Typ.

MECHANICAL DIMENSIONS

Marking Guide



Frequency **ONLY** due to real estate constraints.

Package	A	B	C	D	E
AWT	1.0mm ±0.2mm	3.1mm MAX	8.3mm MAX	8.8mm MIN	0.3mm TYP
AWT2	0.6mm TYP	2.0mm MAX	6.0mm MAX	5.0mm MIN	0.2mm TYP
AWT3	0.45mm TYP	1.5mm MAX	5.0mm MAX	5.0mm MIN	0.17mm TYP