



Static sensitive device

Current part - Recommended for new designs

Op. Temp Range	Frequency Stability (PPM)					
	±0.5	±1.0	±1.5	±2.0	±2.5	±3.0
0°C to +50°C	✓	✓	✓	✓	✓	✓
-10°C to +60°C	Δ	✓	✓	✓	✓	✓
-20°C to +70°C	✘	✓	✓	✓	✓	✓
-30°C to +75°C	✘	✓	✓	✓	✓	✓
-40°C to +85°C	✘	Δ	Δ	✓	✓	✓

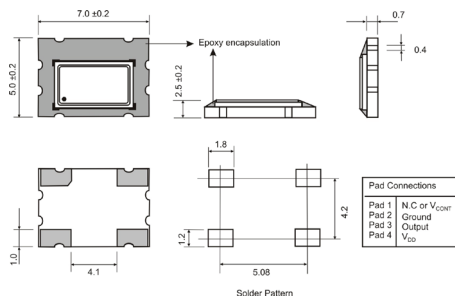
Storage Temp.	-55°C to +125°C
Supply Voltage	Option Code
+5.0V DC	5
+3.3V DC	33

Marking & Specification Code Format

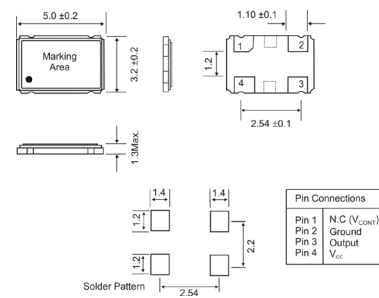
Type	Voltage Code	Temp Range/Stability Options	WWYY
MT/VMT***	5 or 3	See table above	1611

Parameter	Condition	Value
Initial Calibration		± 2.0 PPM
Frequency Stability	vs Temperature	± 0.5 PPM to ± 3.0 PPM (To be specified)
	vs Ageing	±1PPM (1st Year)
	vs Voltage Change	±0.3PPM for ±5% Voltage change
	vs Load Change	±0.3PPM for ±10% load change
	vs Reflow	±1PPM after 1 reflow measured after 24hours
Output Voltage	Peak to Peak	CMOS
Input Current	Frequency Dependant	8.0mA max.
Output Load	Logic High "1"	90% V _{DD} Min.
	Logic Low "0"	10% V _{DD} Max.
Duty Cycle	at 50% V _{DD}	50% ±10%
Rise/Fall Time	20% - 80% of Waveform	10nS Max
Start Up Time	0V to V _{DD}	10mS Max. - 5ms Typ.
Output Load	HCMOS Load	15pF Max.
VC-TCXO AEL VMT only	Control Voltage Range	1.5V ±1.0V (2.5V ±2.0V Available)
	Frequency Pulling Range	±5PPM Min.
	Slope Polarity	Positive slope (Increase voltage = increase freq.)
	Input Impedence	10kΩ Min.
	Modulation Bandwidth (at -3dB)	3kHz (Min.) at -3dB
	Linearity	±10% Max.

Dimensions (mm)



AEL VMT430-Series VC-TCXO
AEL MT430-Series TCXO



AEL VMT600-Series VC-TCXO
AEL MT600-Series TCXO