

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
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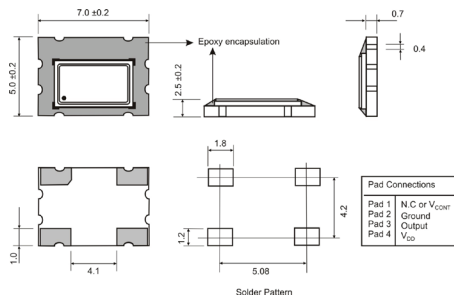
Supply Voltage	Option Code
+5.0V DC	5
+3.3V DC	33
+3.0V DC	30
+2.8V DC	28

Marking & Specification Code Format

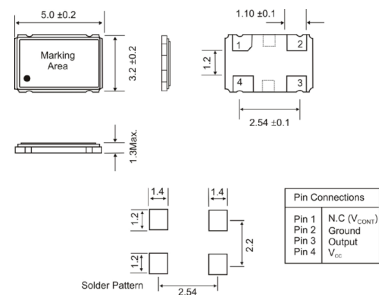
Type	Voltage Code	Temp Range/Stability Options	WWYY
MT/VMT***	See panel	See table above	1611

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	TTL/Cmos				
Input Current	Dependant on Frequency	+2.8V	+3.0V	+3.3V	+5.0V	
	at 8.192 MHz	2mA	2mA		5mA	
	at 155.20 MHz	26mA	25mA		50mA	
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	0.1V _{DD} to 0.9V _{DD}	10nS Max from 20% to 80% of waveform				
Start Up Time	0V to V _{DD}	10mS Max.				
Output Load	HCMOS Load	15pF Max.				
SSB Phase Noise at 25°C	Offset	10Hz	100Hz	1kHz	10kHz	100kHz
	10.000000 MHz	-115dBc/Hz	-135dBc/Hz	-148dBc/Hz	-152dBc/Hz	-155dBc/Hz
	156.000000 MHz	-72dBc/Hz	-110dBc/Hz	-125dBc/Hz	-132dBc/Hz	-125dBc/Hz
VC-TCXO AEL VMT only	Control Voltage Range	1.5V ±1.0V (2.5V ±2.0V Available)				
	Frequency Pulling Range	±5PPM (Min.) to ±25PPM (Max.)				
	Slope Polarity	Positive slope (Increase voltage = increase freq.)				
	Input Impedence	50kΩ Min.				
	Modulation Bandwidth (at -3dB)	20kHz (Min.)				
	Linearity	±10% Max.				

Dimensions (mm)



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



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