Surface Mounted (SMD) TCXO

Available in 7x5mm & 5x3mm SMD Package Sized

LVDS Output (Low Jitter) SMD TCXO & VC-TCXO

RoHS compliant 2002/95/EC

Static sensitive device

Current part - Recommended for new designs

Frequency Stability Options

Operating Temperature Range		Frequency Stability (PPM)					
		±1.0	±2.0	±2.5	±3.0	±4.0	±5.0
Standard	-0°C to +70°C						
Industrial	-30°C to +75°C						

Operating Conditions

Storage Temp	-55°C to +125°C

Option Codes

Supply Voltage	Option Code
+3.3V DC	3

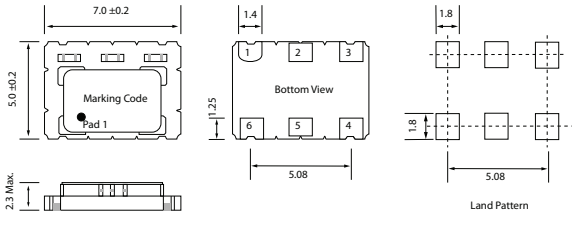
Marking & Specification Code Format

Type	Voltage Code	OTR/Stability	Frequency	Pulling	WWYY
V/MWD***	3	See Above	ie 27.000	in PPM	1611

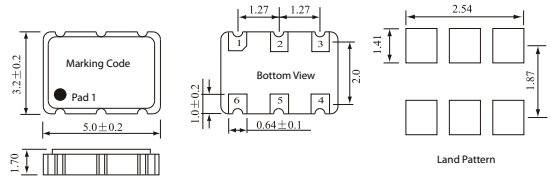
Other temp. ranges/stabilities available

Parameter	Condition		< 24 MHz	24.01 MHz - 96.000 MHz	96.01 MHz - 800.00 MHz
Input Current	15pF Load		25mA Max.	65mA Max.	100mA Max.
Frequency Stability	Over Temperature		See Options Above		
	vs Ageing		≤ ±1.0PPM 1st Year at 25°C		
	vs Voltage Change		≤ ±0.3PPM for a ±5% input voltage change		
	vs Load Change		≤ ±0.3PPM for a ±10% load change		
	vs Reflow		≤ ±1.0PPM 260°C reflow after 24hrs		
Symmetry	at 1.25V		45/55%		
Output Voltage	"0" Level		0.9V Min. (1.1V Typical)		
	"1" Level		1.4V Typical (1.6V Max.)		
Differential O/P Voltage V_{OD}			247mV Min. - 355mV Typ. - 454mV Max. O/P 1 & 2		
Differential O/P Error dV_{OD}			-50mV Min. - 50mV Max		
O/P Offset Voltage V_{OS}			1.125V Min. - 1.20V Typ. - 1.375V Max.		
Offset Magnitude Error dV_{OS}			0mV Min. - 3mV Typ. - 25mV Max.		
Rise/Fall Time	20% to 80% of LVDS Waveform		1.5ns Max		
Start Up Time	0V to V_{DD}		5ms Typ. - 10mS Max.		
Voltage Control VMWD Only	Control Voltage		+1.5V ±1.0V		
	Pulling Range	Standard	±5.0PPM to ±12PPM (To be specified)		
		Narrow	±1.0PPM Max. (or custom)		
Load			50Ω from each Output		
Jitter at 155.52 MHz	Period Jitter (RMS)		5ps Typical		
	Period Jitter (Peak to Peak)		28ps Typical		
	100 kHz Offset		-119dBc/Hz		

Dimensions (mm)



Pin	Connection
#1	V_{CONT}
#2	Tri.State
#3	Gnd
#4	O/P
#5	Comp. O/P
#6	V_{DD}



AEL VMWD430-Series VC-TCXO
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AEL VMWD600-Series VC-TCXO
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