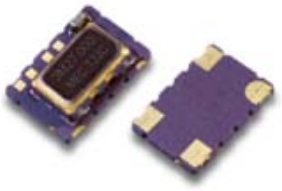
TCXO [Temperature Compensated Crystal Oscillators] *MW572T series 3.3 V*

SMD LVCMOS output
7.0 x 5.0 x 2.5 mm



RoHS Compliance

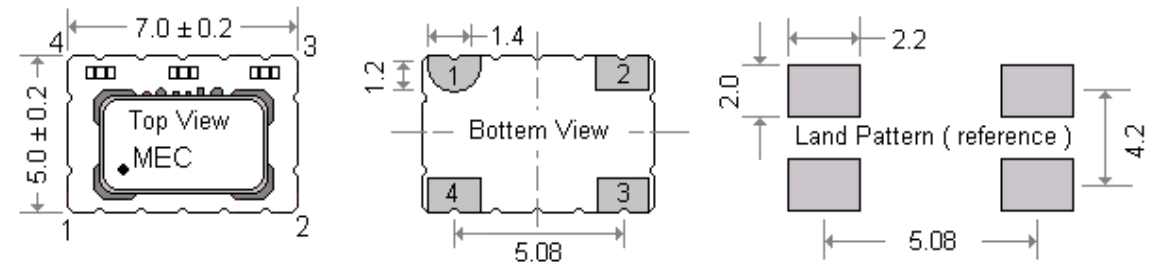
Features

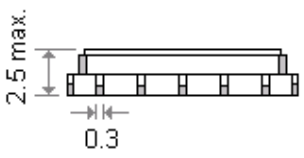
- Wide frequency range : [200.01 MHz ~ 800.0 MHz]
- Custom frequencies can easily be configued .

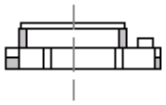
General Specifications

Paramenters		Electrical Spec.						
Input Voltage (V_{DD})		3.3 V ± 5 %						
Frequency Range		200.0 MHz ~ 800.0 MHz						
Output Wave Form		LVCMOS output						
Initial Calibration Tolerance		Models without mechanical trimmer : < ± 2.0 ppm at +25°C ±2°C.						
Frequency Stability (ppm)		± 0.5 ppm	± 1.0 ppm	± 1.5 ppm	± 2.0 ppm	± 2.5 ppm	± 3.0 ppm	± 5.0 ppm
Frequency Stability vs Temperature	0°C to 50°C	○	○	○	○	○	○	○
	-10°C to 60°C	△	○	○	○	○	○	○
○ : available	-20°C to 70°C	X	○	○	○	○	○	○
△ : please contact us	-30°C to 75°C	X	○	○	○	○	○	○
X : not available	-40°C to 85°C	X	○	○	○	○	○	○
Frequency Stability	vs Aging	± 1.0 ppm / year max. at 25C						
	vs Voltage Change	± 0.3 ppm max. , for a ±5% input voltage change .						
	vs Load Change	± 0.3 ppm max. , for a ±10% load condition change .						
	vs Reflow (SMD type)	± 1.0 ppm max. , 1 reflow and measured 24 hours afterwards .						
Current Consumption (max.)		40.0 mA (max.) [frequency dependent]						
Output Logic Levels	Logic High " 1 "	90% of V_{DD} min.						
	Logic Low " 0 "	10% of V_{DD} max.						
Output Load		15 pF						
Start - Up Time (Ts)		5.0 m sec. (typ.) , 10.0 m sec. (max.)						
Output Format		DC block , AC coupled						
Rise Time (Tr) / Fall Time (Tf)		1.2 n sec. (typical) [0.3 V ↔ 3.0 V, 15 pF load]						
Duty Cycle		Standard: 50 % ± 10 % ; Option: 50 % ± 5 % ; Measured at 50% V_{DD}.						
Storage Temperature		- 50°C to 100°C						
Aging		± 3 ppm per year (max.)						
Phase Noise (typical) [622.080 MHz]		Offset	10 Hz	100 Hz	1K Hz	10 KHz	100KHz	
		dBc / Hz	-50	-78	-102	-115	-108	

General Specifications (Unit : mm)







Pad Connections :
Pad 1 : Make no connection if TCXO ;
Control voltage if VCTCXO
Pad 2 : Ground / Case Ground
Pad 3 : Output
Pad 4 : Supply voltage

Mercury www .mercury-crystal.com

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