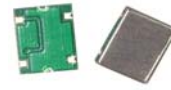


TT1900M1
(with trimmer)



TT1900M2
(no trimmer)

TCXOs, VCTCXOs

TT~VT1900M Series TCXO/VCTCXO

Very Low Profile, SMD

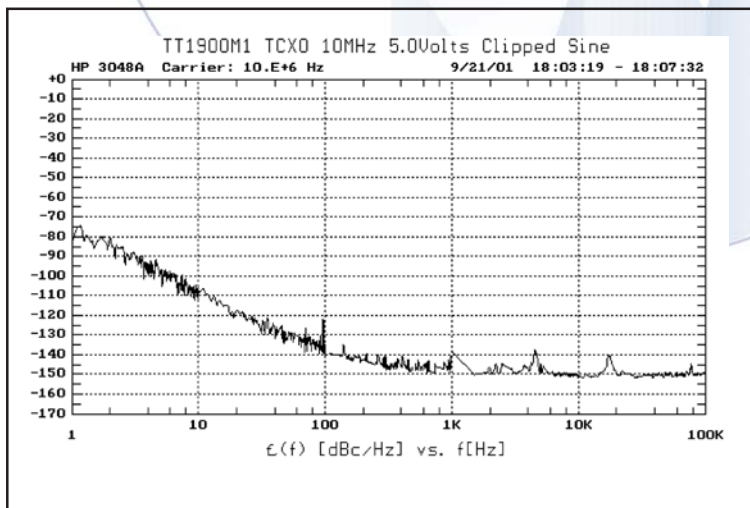


Features:

- ◆ True SMD package
- ◆ Tape and Reel Available
- ◆ Excellent Phase Noise
- ◆ Low Voltage Available

Model: TT/VT1900M Series Specification

Parameter	Clipped Sine	HCMOS
Frequency Range	10.00MHz ~ 40.00MHz	
Operating Temperature Range	See Table	
Frequency Stability		
at Room Temperature	±0.5 ppm (±2.0 ppm no trimmer)	
vs. Temperature	See Table	
vs. Voltage (±5%)	±0.3 ppm max.	
vs. Aging	±1.0 ppm/ Year	
vs. Load (±10%)	±0.3 ppm max.	
Supply Voltage	2.7 V (Clipped Only) 3.0, 3.3, 5.0 V	
Current Consumption	2 mA max.	20 mA max.
Output Voltage	0.8 V p-p min. 1.0 V p-p min.	90% min. 10% max.
Load	10 kOhms//10pF	15 pF
Rise/ Fall Time	n/a	4 ns max. 5 ns. max.
Duty Cycle	n/a	50 ±10%
Frequency Adjustment Trimmer	±3.0 ppm Min.	
Frequency Deviation (VCTCXO only)	±5 ppm to ±14 ppm	
Control Voltage (VCTCXO only)	1.65V ±1.65V (3.3 V) // 2.5V ±2.0V (5.0 V)	



Temperature	Stability (ppm)
0 to 55°C	±1.0, ±1.5, ±2.0, ±2.5 to ±5.0
-10 to 60°C	±1.0, ±1.5, ±2.0, ±2.5 to ±5.0
-20 to 70°C	±1.0, ±1.5, ±2.0, ±2.5 to ±5.0
-30 to 85°C	±1.5, ±2.0, ±2.5 to ±5.0
-40 to 85°C	±1.5, ±2.0, ±2.5 to ±5.0

SEE NEXT PAGE FOR DRAWING

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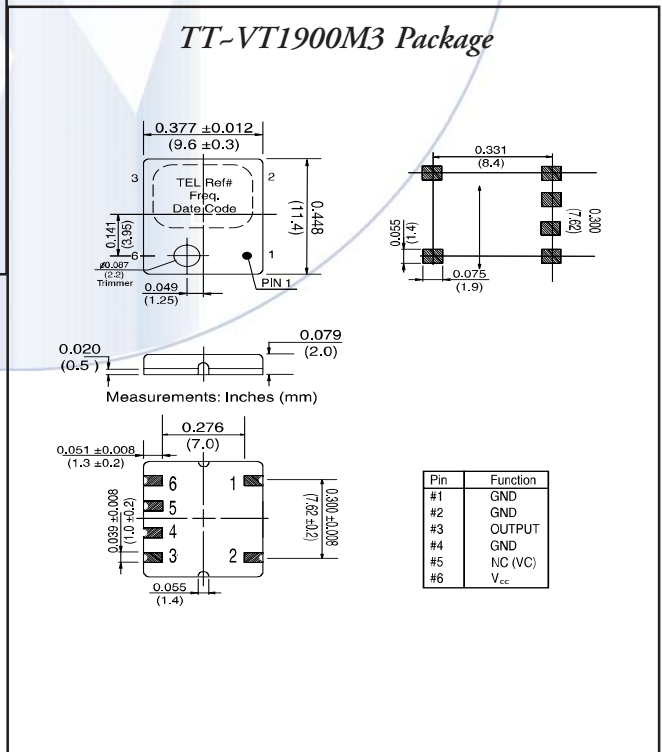
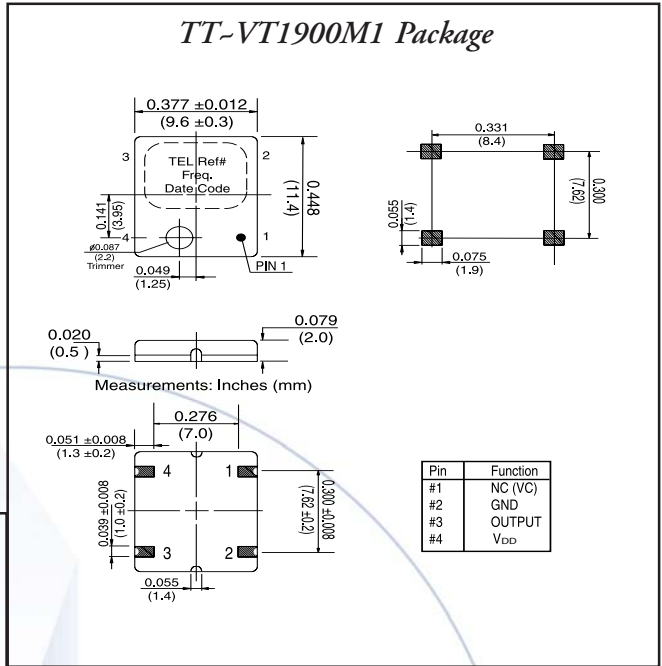
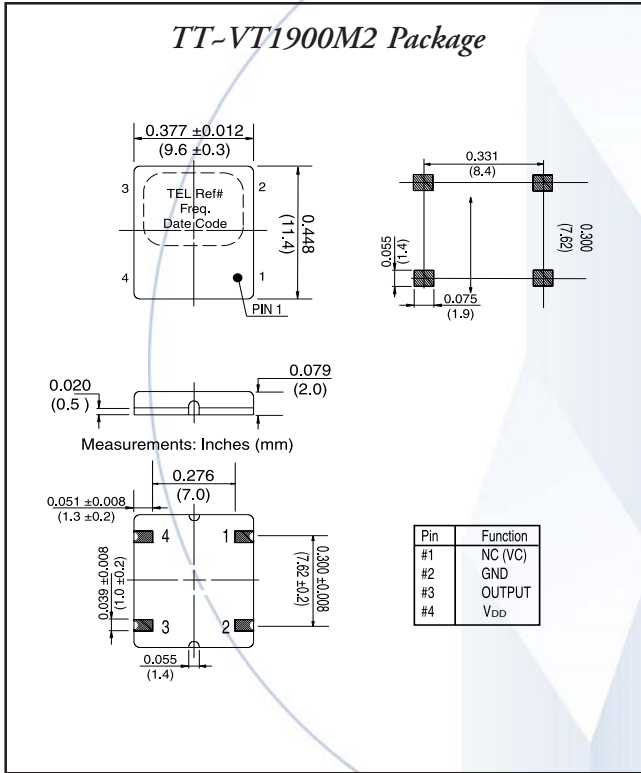
TCXOs~VCTCXOs: TT/VT 1900M Series

TCXOs~VCTCXOs: TT/VT 1900M Series

TCXOs, VCTCXOs

TCXOs~VCTCXOs: TT/VT 1900M Series

TCXOs~VCTCXOs: TT/VT 1900M Series



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