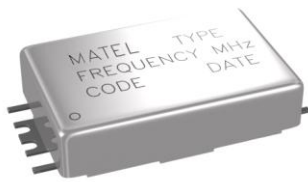


SMD TCXO 21.3 x 11.7 TD-11 & TD-21



www.matel-piezo.fr



FEATURES
1 to 800 MHz HCMOS/TTL
APPLICATIONS
Datacoms

Electrical Parameters

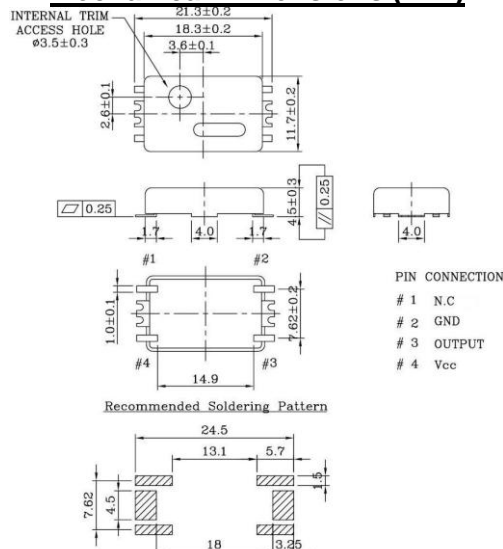
Parameters	Conditions	TD-11	TD-21
Frequency Range		1 ~ 125 MHz	1 ~ 800 MHz
Power Supply Voltage(VDD)		+5V ±5%	+3.3V ±5%
Supply Current		15mA ~ 50 mA	
Frequency Calibration	At 25°C	± 1 ppm	
Frequency Stability	Over TOPR	± 0.5 ppm ~ ± 5 ppm	
Operating Temperature Range		0 ~ 70°C , -40 ~ 85°C	
Stability vs.power change	VDD ± 5%	±0.2 ppm	
Stability vs.load change	15pF ±10%	±0.2 ppm	
Storage Temperature Range		-55°C ~ 125°C	
Aging (First Year)	25°C ± 3°C	± 1ppm Max	
Output Symmetry	At ½VDD	40/60% (45/55% option)	
Rise Time	10% VDD ~ 90% VDD	10 nS Max	
Fall Time	90% VDD ~ 10% VDD	10 nS Max	
Frequency Adjustment	Option P	±3ppm min by internal trimmer(OPTION)	
Output HCMOS Load		15pF max	
Phase Noise (typical)		-80 dBc / Hz @ 10Hz	
		-110 dBc / Hz @ 100Hz	
		-135 dBc / Hz @ 1KHz	
		-140dBc / Hz @ 10KHz	
		-145 dBc / Hz @ 100KHz	

Ordering Code

Temperature Range	Code	Stability	Code	Internal Code	Internal Code	Option	Code
0 + 70°C	B	± 0.5 ppm	Q	0	0	Internal trimmer	P
- 10 + 60°C	C	± 1 ppm	P			Symmetry 45/55%	S
- 20 + 70°C	E	± 2 ppm	M				
- 40 + 85°C	H	± 5 ppm	H				

Example: TD-21ER00P 32MHz

Mechanical Dimensions (mm)



SMD-TCXO

TYPE	TD-11 & TD-21	REVISION	02	CHECKED	PB	DATE	14/09/2012
------	---------------	----------	----	---------	----	------	------------

All specifications are subject to change without notice