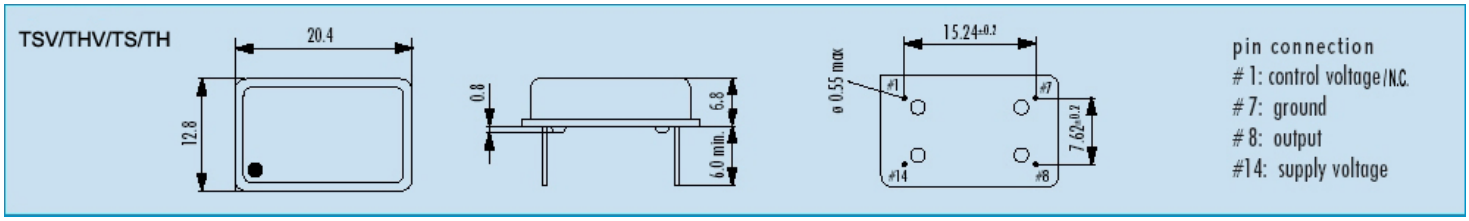
TSV/ THV/ TS/ TH Series* TCXO , TCVCXO

Metal Package, Full Size DIP14

ELECTRICAL SPECIFICATIONS	PARAMETER	TH / THV	TS / TSV
	Frequency	1.000 MHz to 200.000 MHz	9.600 MHz to 200.000 MHz
	Output Level	H-CMOS /TTL	Clipped Sine Wave
	Level	'0'=0.1 Vcc Max., '1'=0.9 Vcc Min.	1.0V p-p Min.
	Duty Cycle	50%±5%	
	Rise/Fall Time	6 nS Max.	
	Output Load	15 pF, Fo<50 MHz=10 TTL, Fo>50 MHz=5LSTTL	10K Ohms/ 10 pF
	Frequency Stability	See Frequency Stability Table	
	Aging	±1 ppm / Year Max.	
	Supply Voltage	See Supply Voltage Table, tolerance ±5%	
	Current	20 mA Max.**	10 mA Max.
	Control Voltage (TSV / THV)	1.65 Vdc±1.5Vdc, ±5ppm Min. for Vcc=3.3 Vdc 2.5 Vdc±2.0 Vdc, ±5 ppm Min. for Vcc=5.0 Vdc	
	Slope	Positive	
	Temperature		
	Operating	See Operating Temperature Table	
	Storage	-55℃ to +125℃	
	Phase Noise	-120dBc/Hz@100Hz ; -140dBc/@1KHz ; -145 dBc/@10KHz	

Environmental And Mechanical	**Operating Temperature Range**	-45℃ to +105℃
	Shock	MIL-STD-883, Method 2002, Test Condition B
	Vibration	MIL-STD-883, Method 2007, Test Condition A
	Humidity (Only for Crystal)	MIL-STD-883, Method 1014, Test Condition C

* TH=H-CMOS TCXO, TS= Clipped Sine TCXO, THV=H-CMOS TCVCXO, TSV=Clipped Sine TCVCXO



Part Number Guide **Sample Part Number: TSV-2P5-16.0000MHz**

(Stability is ±2.0 ppm over -40℃ to +85℃ ,16MHZ ,Clipped Sine Wave Output , + 5.0Vdc Supply Voltage)

Package and Output	Operating Temperature	Frequency Stability	Supply Voltage	Frequency
TH **TS** **THV** **TSV**	7=0℃ to +50 ℃	Q=±1.0 ppm	5=5.0 Vdc	Customer Specified
	1=0℃ to +70 ℃	P=±2.0 ppm	3=3.3 Vdc	
	3=-20 ℃ to +70 ℃	O=±2.5 ppm		
	2=-40 ℃ to +85 ℃	R=±3.0 ppm		
	5=-45 ℃ to +105 ℃	J =±5.0 ppm		

** Frequency, supply, and load related parameters. Specifications subject to change without notice

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MMDC-Techs Science Inc.
www.mmdc-techs.com
sales@mmdc-techs.com