

MGT(V) Series

TCXO with Voltage Control Option

5x7mm, CMOS or Clipped Sine

Features

- └ Frequency range of 5MHz to 26MHz
- └ Fundamental mode crystal
- └ High Reliability in accordance with MIL-STD-883. Class B
- └ Low power consumption

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F		5		26	MHz	
Frequency Stability	$\Delta F/F$	Vs. Operating Temperature Initial Tolerance Vs. Supply Voltage Vs. Aging over 20 Years Vs. Load 15pF $\pm$ 10%			± 0.2 ± 4.6	ppm	Total Inclusive Over 20 years
Operating Temperature Range	T		0 -40		+70 +85	°C	Order Code B Order Code G
Supply Voltage	Vcc		4.75 3.13	5.00 3.30	5.25 3.47	V	Order Code D Order Code E
CMOS Supply Current	Ic				6	mA	
Clipped Sine Supply Current	Ic				3.5		
Voltage Control	Vc	For 3.3V model For 5.0V model	0 0.5		3.3 4.5	V	
Vc Input Impedance			100K			Ω	
APR		APR inclusive of aging over 20 years.	5			ppm	See Ordering Information
Deviation slope		Monotonic positive					
Linearity			-10		+10	ppm/V	
Modulation BW			10			KHz	3dB BW
SSB Phase Noise		@ 100Hz @ 1 KHz @10 KHz		-120 -140 -148		dBc/Hz	Fo=12.8MHz
Phase Jitter		1s over 12Khz ~ 20MHz			3.5	ps	Fo=12.8MHz
Start up					2	ms	
CMOS Output Level	Voh Vol	15pF 50% $\pm$ 5 symmetry	90%Vcc		10%Vcc	V	
Clipped Sine Output Level		@10KO // 10pF	0.8			Vp-p	
Rise/Fall Time					8	ms	
Storage Temp.			-55		+125	°C	

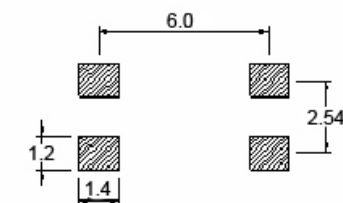
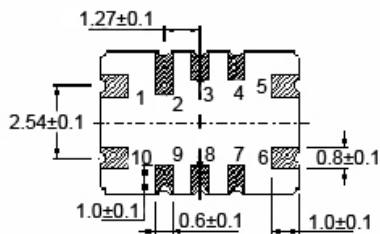
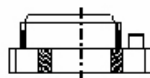
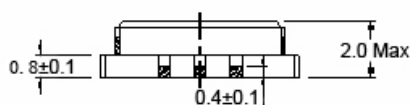
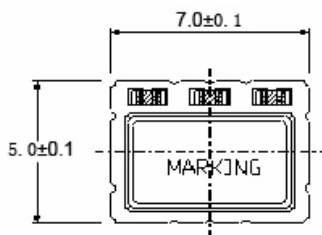
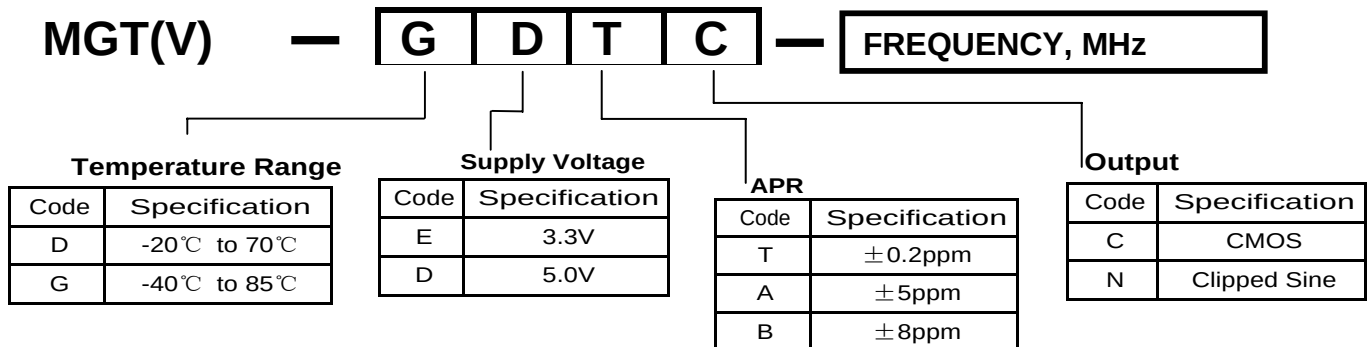
Standard Frequencies	CMOS	5, 6.4, 8, 10, 12.5, 12.8, 16, 19.44, 25MHz
	Clip Sine	10, 12.5, 12.8, 16, 19.44, 25MHz

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How to Order



Recommended Soldering Pattern

PIN	Specification
1	Vcontrol or NC
5	GND
6	Output
10	Vcc

Environmental and Mechanical

Parameter	Specification
Mechanical Shock	Per MIL-STD-202, Method 213, Condition E
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A
Vibration	Per MIL-STD-883, Method 2007, Condition A
Soldering Conditions	260°C for 10s max
Hermetic Seal	Leak rate less than 5×10^{-8} atm.cc/s of helium (crystal only)