BTS53S3 SERIES CLIPPED SINE STRATUM 3 VC/TCXO - 5.0 x 3.2 x 1.65mm

Frequency Range		10.000MHz to 40.000MHz	
Frequency Stability	(Overall for 20 Years)	±4.6 ppm max	
	vs. Temperature	±0.5 ppm max (See Chart Below)	
	vs. Supply Voltage ±5%	±0.2 ppm max	
	vs. Load	±0.2 ppm max	
Holdover Stability (24 Hours)		±0.32 ppm max	
Supply Voltage ± 5%		3.3V	5.0V
Output		Clipped Sine	
Output Load		10kΩ // 10pF	
Output Level		0.8V p-p min	
Current Consumption		2.5mA max	
Temperature Range	Operating	See Chart Below	
	Storage	-55 °C to +125°C	
Control Voltage		1.5V ± 1.0V	1.5V ± 1.0V
Tuning Range		±5.0 ppm min	
Phase Noise @ 12.8MHz		100Hz offset	-125dBc/Hz
		1kHz offset	-145dBc/Hz
		10kHz offset	-150dBc/Hz
Tristate (Optional)	Disable	0.3 Vdd max	
	Enable	0.7 Vdd min	

FREQUENCY STABILITY vs. TEMPERATURE (■ - available) (▲ – conditional) (x – not available)

Temp °C / ppm	±0.14	±0.28	±0.37	±0.5
0 ~ +55	■	■	■	■
-10 ~ +60	■	■	■	■
-20 ~ +70	■	■	■	■
-30 ~ +85	■	■	■	■
-40 ~ +85	x	■	■	■

PART NUMBERING GUIDE

Series	Pin 1	Voltage	Stability vs. Temperature	Temp Range	Frequency
BTS53S3	Voltage Control =V	3.3V = 33	±0.5 = F	0 ~ +55 °C = 05	20M000
	N/C = Blank	5.0V = 50	±0.37 = G	-10 ~ +60 °C = 10	
			±0.28 = H	-20 ~ +70 °C = 20	
			±0.14 = K	-30 ~ +85 °C = 35	
				-40 ~ +85 °C = 45	

Example P/N: BTS53S3 – V – 33 – H – 35 – 20M000

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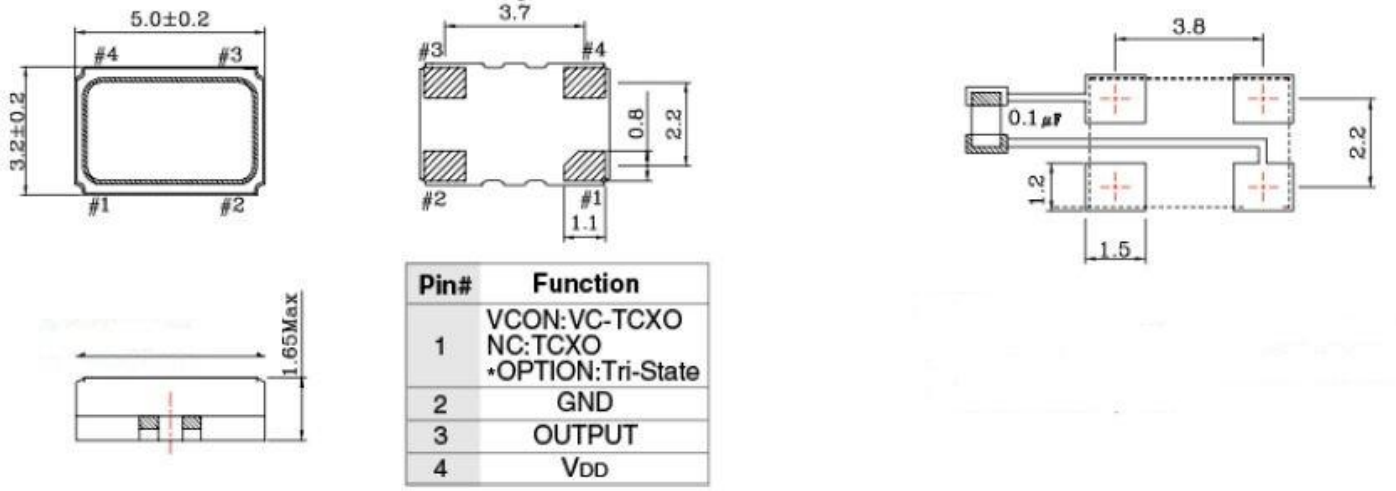
MECHANICAL DRAWING



Pin#	Function
1	VCON:VC-TCXO NC:TCXO *OPTION:Tri-State
2	GND
3	OUTPUT
4	VDD

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