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TCXO1487K-100MHz-A-V
100MHz SMD TCXO

Features and Benefits

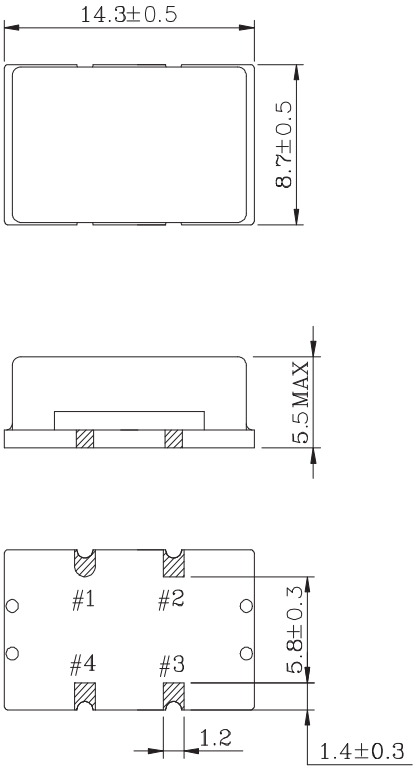
100MHz frequency
5.0V supply voltage
Clipped sine wave output
±1.0ppm from -40°C to +70°C
14.3x8.7x5.5mm

Typical Applications

Communication equipments

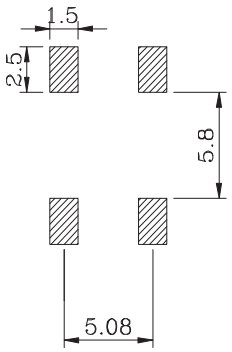
Mechanical Drawing & Pin Connections

Drawing No: MD180032-1



CONNECTION
#1 N.C or V.C
#2 GND
#3 OUTPUT
#4 Vcc

Recommended Soldering Pattern



Unit in mm
1mm = 0.0394 inches

Specifications

Oscillator Specification		Sym	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency		f_0			100		MHz	
RF Output								
Clipped sine	Level				1.0		dBm	
	Load				10k//10pF		k//pF	
Spurious				80			dBc	
Power Supply								
Voltage		V_{cc}		4.75	5.00	5.25	V	
Current						20	mA	
Frequency Control								
Control Voltage Range		V_c	V_{CC}=5V	0.5	2.5	4.5	V	
Tuning Range				±8			ppm	
Frequency Stability								
Tolerance			At 25°C, Vc=2.5V			±1.0	ppm	
Versus Temperature			From-40°C to +70°C			±1.0	ppm	
Versus Supply Voltage			5% change			±0.2	ppm	
Versus Load			10% change			±0.1	ppm	
Aging			Per year			±1.0	ppm	
Phase Noise			1 KHz		-140		dBc/Hz	
			10 KHz		-155			
Environmental Conditions								
Operating temperature range			-40°C to +70°C					
Storage temperature range			-45°C to +90 °C					