



Features and Benefits

High frequency stability(up to ±1ppm over -40°C to +85°C)
Low power consumption (up to 25 mA)
3.3V power supply

Typical Applications

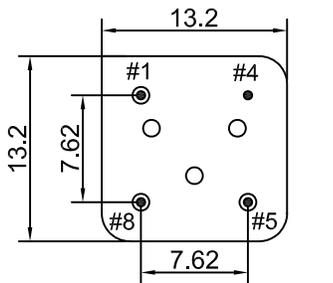
Microwave Communication
Mobile Devices

Description

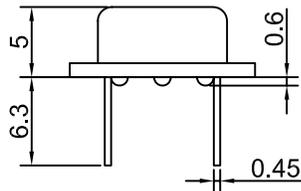
TCXO1212DG-40.96MHz-A-V offers high frequency stability and low power consumption to suit the different telecommunication applications needs.

Mechanical Drawing & Pin Connections

Drawing No: MD1+00' - !%



Marking



Pin Connections

Pin	Symbol	Function
1	Vc	Control Voltage(EFC)
4	GND	Ground
5	RF Out	RF Output
8	Vs	Supply Voltage

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency			40.96			MHz	
Output Load				15		pF	
Output Waveform			CMOS/TTL				
H-Level Voltage	V _H		2.97			V	
L-Level Voltage	V _L				0.33	V	
Duty Cycle			45		55	%	
Rise / Fall Time					3	nS	
Power Supply							
Supply Voltage	V _S		3.15	3.30	3.45	V	
Current Consumption			10		25	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			-5		+5	ppm	
EFC Voltage	V _C		0	1.5	3.0	V	
Frequency Stability							
Vs Operating Temperature				±1.0		ppm	
Vs Supply Voltage changes	V _S				±0.2	ppm	
Vs Load changes					±0.2	ppm	
Aging Per Year					±1.0	ppm	
Phase Noise		@ 1 KHz			-130	dBc / Hz	
Environmental Conditions							
Operating Temperature Range			-40		+85	°C	
Storage Temperature Range			-55		+100	°C	
Enclosure (see drawing) L x W x H			12.7 x 12.7 x 5.0			mm	