OCXO3627AR-40MHz-A-V
High Stability 40MHz OCXO_Oven Controlled Crystal Oscillator

Features and Benefits

Frequency range: 40MHz
Supply voltage: 5V
Steady current: 300mA Max
Output waveform: CMOS
Frequency stability vs. operating temperature: ±10ppb
Aging: 300ppb per year
Operating temperature: -20°C to +70°C
Size: 36x27x15mm
Package type: Through hole

Typical Applications

Wireless Communications
Test equipment
Synthesizers

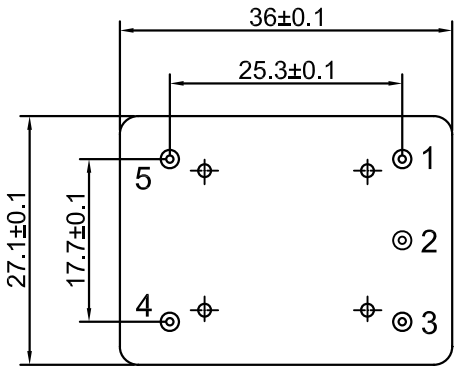
Description

OCXO3627AR-40MHz-A-V offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No: MD240084-1

Bottom View

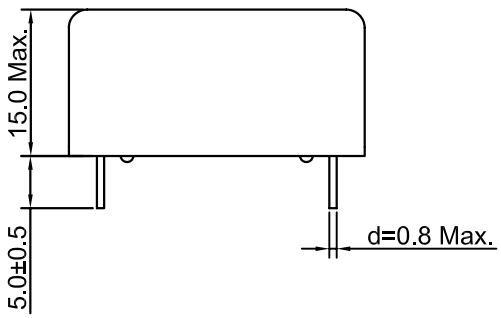


Pin Connections:

Pin	Symbol	Function
1	Vc	Control Voltage(EFC) or N.C.
2	VREF	Reference Voltage or N.C.
3	Vs	Supply Voltage
4	RF OUT	RF Output
5	GND	Ground

Unit in mm
1mm = 0.0394 inches

Side View



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f_0			40		MHz	
RF Output							
Signal Waveform				CMOS			
Duty Cycle			45	50	55	%	
Load				15		pF	
Rise/Fall time					7	ns	
Power Supply							
Supply Voltage	Vcc		4.75	5	5.25	V	
Warm-up current					900	mA	
Steady current					300	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			-2		+2	ppm	
EFC voltage	Vc		0	1.65	3.3	V	
Frequency Stability							
Versus Operating Temperature Range				±10		ppb	
Versus supply voltage					10	ppb	
Versus supply load					5	ppb	
SSB Phase noise		10Hz			-100	dBc/Hz	
		100Hz			-125		
		1KHz			-150		
		10KHz			-155		
Aging Per Day					2	ppb	
Aging 1st Year					300	ppb	
Maximum ratings, environmental, mechanical conditions							
Operating temperature range	-20°C to +70°C						
Storage temperature range	-55°C to +100°C						