



Features and Benefits

Available custom frequency range from 64.8MHz to 120 MHz
High stability up to ± 0.40 ppm at -40°C to $+70^{\circ}\text{C}$
Low aging rate up to ± 0.5 ppm per year

Typical Applications

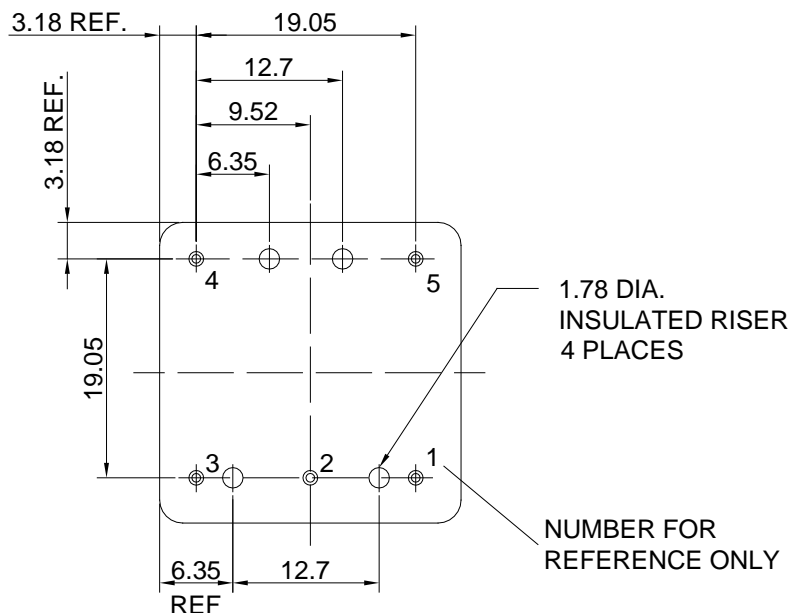
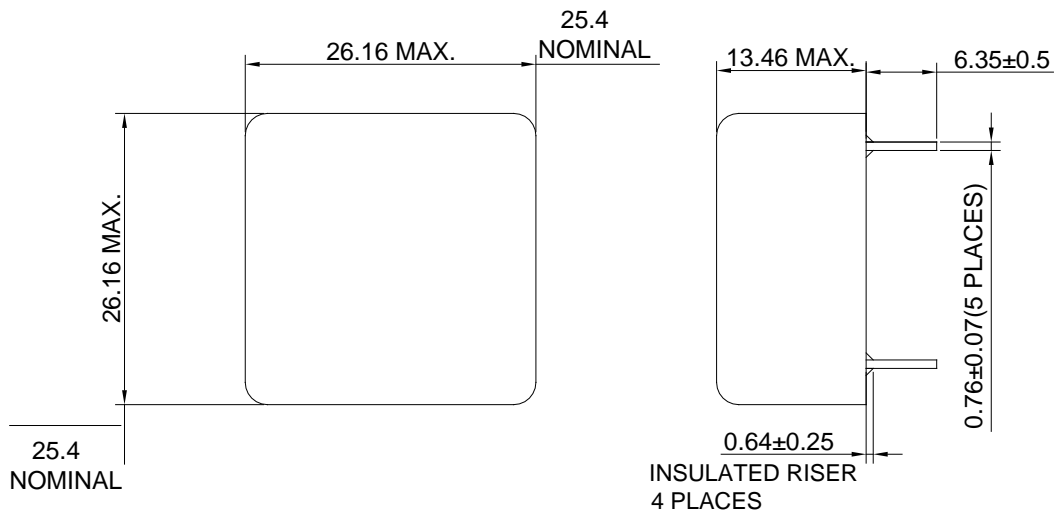
Synthesizer modules
Microwave communications

Description

A contemporary OCXO with custom frequency serves as a reliable source for microwave communications and synthesizer modules.

Mechanical Drawing & Pin Connections

Drawing No:MD150013-2



PIN CONNECTIONS

1	OUTPUT
2	RF & CASE GROUND
3	VOLTAGE CONTROL
4	N.C.
5	+VDC

Unit : mm
1mm=0.0394inch



Specifications

General Specifications						
Parameter	Condition	Value			Unit	Note
		Min.	Typ.	Max		
Frequency		64.8		120.0	MHz	
Set on	+25°C, V _c =+2.5Vdc		±0.50		ppm	
RF Output						
Output		Sinewave				
Level		+7			dBm	
Load			50		Ohm	
Harmonics				-25	dBc	
Spurious				-75	dBc	
Frequency Stability						
Vs. temperature	-40°C to +70°C			±0.40	ppm	
Vs. supply voltage	±5% change in supply voltage		±0.05		ppm	
Vs. Load	±5% change in load		±0.05		ppm	
Electrical Frequency Adjust	V _c = +0.0 to +5.0 Vdc	±3.0		±5.0	ppm	Positive slope
Input impedance		100			Kohm	
Power Supply						
Supply voltage	Tested at +12.0 Vdc ±5%	-5%	+12.0	+5%	Vdc	
Operation over		+11.5		+15.5	Vdc	
At turn-on				3.0	Watts	
Stabilized at +25°C			1.5		Watts	
Warm-up time	After 5 minutes of final frequency at +25°C		±0.50		ppm	
Phase Noise	100 Hz offset		-120		dBc	Typical for 99 to 101 MHz output frequency
	1 kHz offset		-145			
	10 kHz offset		-155			
	100 kHz offset		-160			
Aging	First Year			±0.5	ppm	
	2 nd Year			±2.0	ppm	For 10 years



Available Frequencies			
DEI Part Number	Frequency in MHz	DEI Part Number	Frequency in MHz
OCXO2525D-64.800000MHz-A-V	64.800000	OCXO2525D-100.000000MHz-A-V	100.000000
		OCXO2525D-100.022523MHz-A-V	100.022523
OCXO2525D-65.536000MHz-A-V	65.536000	OCXO2525D-100.029412MHz-A-V	100.029412
		OCXO2525D-100.032663MHz-A-V	100.032663
OCXO2525D-70.000000MHz-A-V	70.000000	OCXO2525D-100.032965MHz-A-V	100.032965
		OCXO2525D-100.035398MHz-A-V	100.035398
OCXO2525D-80.000000MHz-A-V	80.000000	OCXO2525D-100.042522MHz-A-V	100.042522
		OCXO2525D-100.050633MHz-A-V	100.050633
OCXO2525D-84.000000MHz-A-V	84.000000	OCXO2525D-100.055556MHz-A-V	100.055556
		OCXO2525D-100.057692MHz-A-V	100.057692
OCXO2525D-99.512195MHz-A-V	99.512195	OCXO2525D-100.071429MHz-A-V	100.071429
OCXO2525D-99.532800MHz-A-V	99.532800	OCXO2525D-100.078113MHz-A-V	100.078113
		OCXO2525D-100.084034MHz-A-V	100.084034
OCXO2525D-99.661017MHz-A-V	99.661017		
OCXO2525D-99.665682MHz-A-V	99.665682	OCXO2525D-100.100000MHz-A-V	100.100000
OCXO2525D-99.671053MHz-A-V	99.671053	OCXO2525D-100.107595MHz-A-V	100.107595
OCXO2525D-99.675325MHz-A-V	99.675325	OCXO2525D-100.114094MHz-A-V	100.114094
OCXO2525D-99.681416MHz-A-V	99.681416	OCXO2525D-100.116822MHz-A-V	100.116822
		OCXO2525D-100.127551MHz-A-V	100.127551
OCXO2525D-99.705882MHz-A-V	99.705882	OCXO2525D-100.133601MHz-A-V	100.133601
OCXO2525D-99.730769MHz-A-V	99.730769	OCXO2525D-100.155280MHz-A-V	100.155280
OCXO2525D-99.758065MHz-A-V	99.758065	OCXO2525D-100.166667MHz-A-V	100.166667
OCXO2525D-99.759615MHz-A-V	99.759615	OCXO2525D-100.197368MHz-A-V	100.197368
OCXO2525D-99.814570MHz-A-V	99.814570	OCXO2525D-100.225225MHz-A-V	100.225225
OCXO2525D-99.884354MHz-A-V	99.884354	OCXO2525D-100.229885MHz-A-V	100.229885
OCXO2525D-99.891026MHz-A-V	99.891026	OCXO2525D-100.233645MHz-A-V	100.233645
OCXO2525D-99.892473MHz-A-V	99.892473	OCXO2525D-100.240964MHz-A-V	100.240964
		OCXO2525D-100.255102MHz-A-V	100.255102
OCXO2525D-99.927326MHz-A-V	99.927326	OCXO2525D-100.260417MHz-A-V	100.260417
OCXO2525D-99.964602MHz-A-V	99.964602	OCXO2525D-100.264901MHz-A-V	100.264901
OCXO2525D-99.965074MHz-A-V	99.965074	OCXO2525D-100.267857MHz-A-V	100.267857
OCXO2525D-99.966667MHz-A-V	99.966667	OCXO2525D-100.269565MHz-A-V	100.269565
		OCXO2525D-100.270000MHz-A-V	100.270000
		OCXO2525D-100.271138MHz-A-V	100.271138
		OCXO2525D-100.290698MHz-A-V	100.290698
		OCXO2525D-100.295302MHz-A-V	100.295302
		OCXO2525D-100.306122MHz-A-V	100.306122
		OCXO2525D-100.328947MHz-A-V	100.328947
		OCXO2525D-100.396040MHz-A-V	100.396040
		OCXO2525D-100.480769MHz-A-V	100.480769
		OCXO2525D-120.000000MHz-A-V	120.000000

Please contact Dynamic Engineers Inc. for further details.