#### TCXO914Z-28.8MHz-A-V

High accurate, reliable, temperature compensated Sinewave VC-TCXO

#### **Features and Benefits**

High frequency stability(up to ±0.3ppm over -40°C to +85°C) Sinewave Output SMD Miniature package

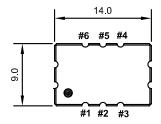
### **Typical Applications**

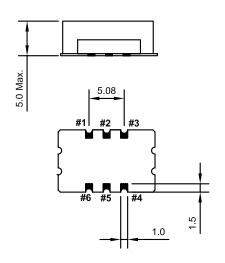
UHF Synthesizers SATCOM System Portable Microwave Applications

#### **Description**

TCXO914Z-28.8MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

### **Mechanical Drawing & Pin Connections**

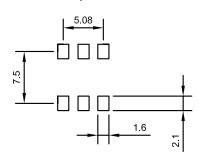




#### Drawing No: MI

MD150098-2





#### Pin Connections:

#1. Vc (Voltage Control)

#2. N.C.

#3. GND

#4. RF Output

#5. N.C.

#6. Vdc

#### Unit in mm

1 mm = 0.0394 inches



# Dynamic Engineers Inc.

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## **Specifications**

Oscillator Specification		Sym	Condition	Min.	Value Typ.	Max.	Unit	Note	
Operational Frequency		F <sub>nom</sub>			28.8000	maxi	MHz		
-	Output Level	· Hom		3			dBm		
Sinewave	Output Load				50		ohm		
Power Supp	ply								
Voltage		$V_{cc}$			3.30		V		
Current Consumption						7.0	mA		
Frequency	Control*								
Control voltage range		V <sub>c</sub>		0.5		2.5	V		
Tuning range				-5		+5	ppm	Tuning Slope Positive	
Frequency Slope			Over operating temperature			0.05	ppm/°C		
Frequency			, 3 ,	•					
Versus temperature			-40°C to 85°C, ref to (fmax+fmin)/2	-0.3.		+0.3	ppm		
Tolerance at 25°C			,	0		+1.0	ppm		
Versus ±5% change in supply voltage			Ref to frequency at nominal supply	-0. 1		+0.1	ppm		
Versus ±10% change in load			Ref to frequency at nominal load	-0.1		+0.1	ppm		
First Year Aging				-1.0		+1.0	ppm		
Over 10 Years Aging				-4.0		+4.0	ppm		
Phase noise (typ.) @28.8MHz			10Hz		-85				
			100 Hz		-120		dBc/Hz		
			1000 Hz		-140				
			10 KHz		-150				
			100 KHz		-155				
Short-1	Γerm Stability	ADEV	Tau = 1 second			1.0	E-10		
Environme	ntal Conditions								
Operating temperature range		-40°C to 85°C							
Storage temperature range			-55°C to 105°C						
Reflow profiles		≤260°C over 10sec Max as per IPC/JEDEC J-STD-020C							
Moisture ser	nsitivity	Level 1	Level 1(unlimited)						

## **Specifications**

