#### TCXO2522BJ-80MHz-B-V

High stability 80MHz TCXO

#### **Features and Benefits**

Frequency range:80MHz Supply voltage: 5.0V Steady current: 30mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±1.0ppm

Aging@40°C: ±1.0ppm/Year Phase noise@10KHz: -155dBc/Hz Operating temperature: -40°C-- +85°C

Size: 25.4x22x11.5mm

### **Typical Applications**

Repeater Link and micro cells Low noise microwave

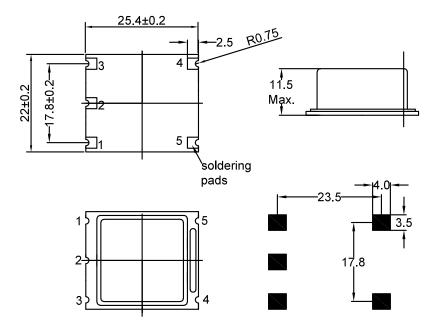
## **Description**

TCXO2522BJ-80MHz-B-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:** 

MD230028-1



#### Pin Function

#1	Supply Voltage					
#2	RF Output					
#3	GND, Case					
#4	Control Voltage					
#5	GND Case					

Unit in mm 1mm = 0.0394 inches



# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

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## **Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F <sub>nom</sub>			80		MHz	
Output				Sinewave			
Output level			+3			dBm	
Harmonic					-30	dBc	
Output load				50	•	ohm	
Power Supply							
Voltage	V <sub>cc</sub>	±5%		5.0		V	
Current Consumption					30	mA	
Frequency Adjustment Range			<u>'</u>				
Electronic Frequency Control (EFC)			±5			ppm	
EFC voltage	Vc		0.5		4.5	V	
EFC Slope				positive			
EFC linearity				10		%	
Frequency Stability							
Versus temperature		-40°C to +85°C			±1.0	ppm	
Initial tolerance					±1.0	ppm	
24 hours after reflow		Tpeak=+260°C for 10sec Max			±1.5	ppm	
Versus ±5% change in supply voltage					±0.1	ppm	
Versus ±10% change in load					±0.1	ppm	
Aging per year		@ 40 °C			±1.0	ppm	
Low aging option (10 years)					±3.0	ppm	
RMS Jitter (12KHz to 20MHz)					0.1	pS	
Phase noise		10Hz		-90		dBc/Hz	
		100Hz		-125			
		1KHz		-140			
		10KHz		-155			
		100KHz		-170			
Environmental Conditions							
Operating temperature range		to +85°C					
Storage temperature range	-55°C	to +105°C					