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

TCXO2522BJ-80MHz-A-V
High stability 80MHz TCXO

Features and Benefits

Frequency range:80MHz
Supply voltage: 5.0V
Steady current: 40mA Max
Output waveform: HCMOS
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

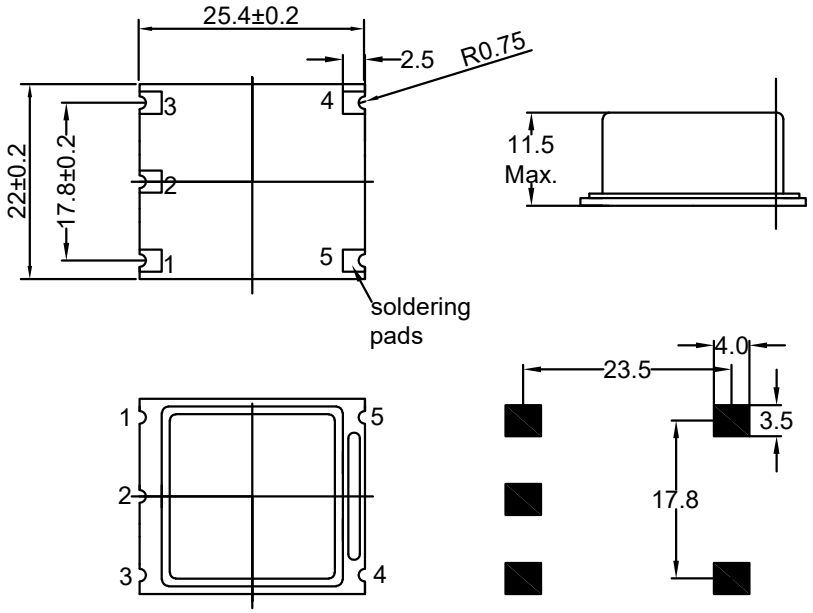
Repeater
Link and micro cells
Low noise microwave

Description

TCXO2522BJ-80MHz-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: **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

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			80		MHz	
Output				HCMOS			
Output level				VOL ⩽ 10% Vcc VOH ⩾ 90% Vcc			
Output load				1K ohm // 15 pF			
Power Supply							
Voltage	V_{cc}	±5%		5.0		V	
Current Consumption					40	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±5			ppm	
EFC voltage	V_c		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		Vc=+2.5V			±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	
Phase noise		10Hz		-90		dBc/Hz	
		100Hz		-125			
		1KHz		-140			
		10KHz		-155			
		100KHz		-170			
Environmental Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +105°C						