



Features and Benefits

Frequency range: 80MHz

Supply voltage: 5.0V

Steady current: 40mA Max

Output waveform: HCMOS

Frequency stability vs. operating temperature: ± 1.0 ppm

Aging@40°C: ± 1.0 ppm/Year

Phase noise@10KHz: -155dBc/Hz

Operating temperature: -40°C -- +85°C

Size: 25.4x22x11.5mm

Typical Applications

Repeater

Link and micro cells

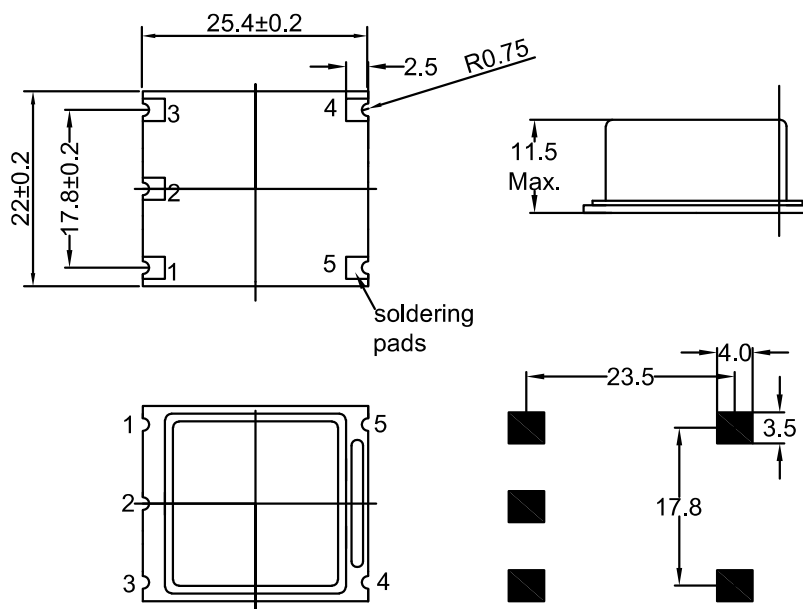
Low noise microwave

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

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

Unit in mm

1mm = 0.0394 inches



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 _e		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						