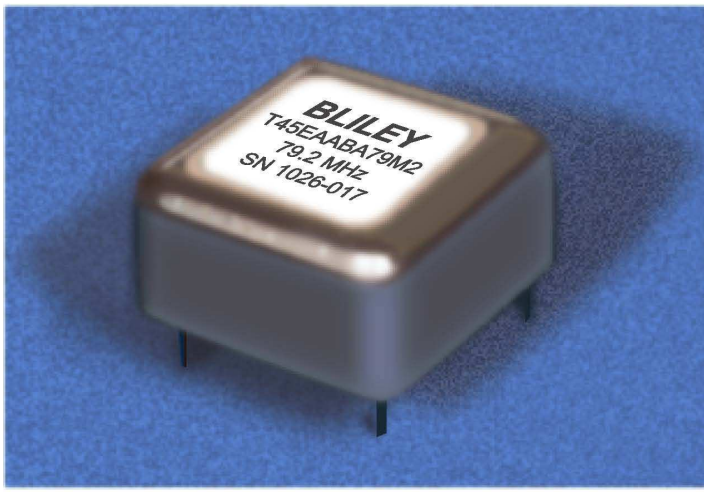
Military Temperature Range TCXO

T45G_Series

Description:

The T45G Series Temperature Compensated Crystal Oscillator is specifically designed for applications requiring Military Temperature range performance. It is an ideal product where severe environmental performance is a must.



Features:

- Available at customer specified frequencies between 20MHz and 120MHz.
- Tight Stabilities as low as +/- 5 ppm over 55°C to +125°C.
- HCMOS or Sine Wave output.
- Ruggedized 4-Point mount crystal.
- RoHS compliant version available.

Output Frequency Range: Customer Defined 20MHz to 120MHz
Frequency Set Tolerance @ 25°C: ±1 ppm

Frequency Stability versus Temperature:

Temp. Range Option	Freq. vs. Temp. (Option A)	Freq. vs. Temp. (Option B)
-40°C to 85°C (Option D)	+/- 5 ppm	+/- 10 ppm
-55°C to +125°C (Option E)		

Storage Temperature: -65°C to +150°C

Output Waveform:

Option A	Option B
Sine Wave	HCMOS
7dBm Min	Logic "0" 0.4 V Max
Harmonics -30dBc Max	Logic "1" 4.5 V Min
Spurs -60 dBc Max	Rise/Fall Time 5 nSec Max
	Duty Cycle 50%±10%

Input Power Consumption:

Option A	Option B
12 Vdc +/- 5%	15 Vdc +/- 5%
Supply Current 40 mA Max	

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Aging:

Frequency	Timeframe	Aging
100MHz	After 30 Days	± 1.0 ppm/year ± 5.0 ppm/5 years

Environmental:

Shock	MIL-STD-202G	Method 213B Condition C
Sine Vibration	MIL-STD-202G	Method 204D Condition A
Random Vibration	MIL-STD-810G	Method 514.6 Procedure I

Ordering Options:

Model	Temp Range	Freq Vs Temp	Output Waveform	Input Voltage	Operating Frequency* (MHz)
T45 For Leaded Part	**D**	**A**	**A**	**A**	**20M0000 to 120M000**
	E	**B**	**B**	**B**	
T45G for RoHs Part					

* Trailing zeros will be omitted in final part number