

OCXO-PORT

1. Specification

Standard frequency:	10.0 MHz	
Type:	A	B
Frequency stability in the temperature range - 20°C to + 70°C:	< $\pm 2.5 \times 10^{-8}$ (1)	< $\pm 5 \times 10^{-8}$ (1)
Frequency stability vs. supply voltage changes $U_B \pm 5\%$: vs. load changes 50 Ohm $\pm 10\%$:	< $\pm 2 \times 10^{-9}$ < $\pm 1 \times 10^{-9}$	
Long term stability after 30 days of operation:	< $\pm 5 \times 10^{-9}$ per day < $\pm 1 \times 10^{-7}$ per year (< $\pm 5 \times 10^{-8}$ typically)	
Short term stability:	< $\pm 5 \times 10^{-12}$	
Frequency control range with ext. trimmer 20 kOhm or external voltage 1 ... 5 V:	$\geq \pm 4 \times 10^{-7}$	
Supply voltage U_B :	12 V $\pm 10\%$	
Current consumption at steady state @ + 25°C:	< 80 mA	
Peak Current consumption during warm-up:	< 1000 mA	
Warm-up time within $\leq \pm 1 \times 10^{-7}$: within $\leq \pm 5 \times 10^{-8}$:	< 7min. @ -20°C < 5min. @ +25°C < 8.5min. @ -20°C < 7.0min. @ +25°C	
Temperature ranges Operating: Storage:	-20°C ... + 70°C -55°C ... + 85°C	
Output voltage : level:	Sinewave > 225 mV into 50 Ohm load	
Phase noise: 1 Hz: 10 Hz: 100 Hz: 1000 Hz: 10 kHz:	-90 dBc/Hz -120 dBc/Hz -150 dBc/Hz -160 dBc/Hz -170 dBc/Hz	
Harmonic suppression	min. 30 dB	



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2. Environmental conditions

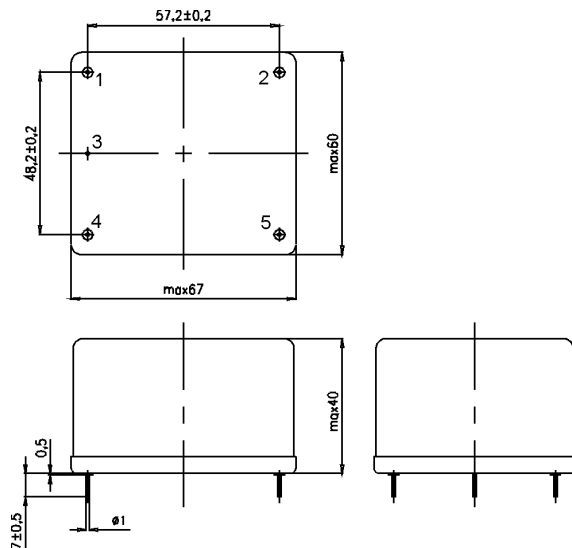
Shock:	DIN IEC 68-2-27, Test Ea, 100 g, 6ms Half-sine, 3 bumps in 3 main directions
Vibration:	DIN IEC 68-2-6, Test Fc, 10-500Hz, 10g, 2 h in 3 main directions
Humidity:	DIN IEC 68-2-3, 40°C/93%RH, 21 days
Solderability:	DIN IEC 68-2-20 only for wire leads, Methode 3: Solder globule at + 235°C

3. Marking

Manufacturer's name; date code(week/year); Specification; Center frequency

4. Case

Case style: BF-174



Pin configuration

1. RF-output
2. Potentiometer (Vref out)
3. Ground, case, potentiometer
4. Potentiometer SL (VC in)
5. Supply voltage

5. Test circuit

Test circuit BF-174

