OCXO



Environmental conditions

The ovenized crystal oscillators model's QO1320, QO2020, QO2626, QO2736 and their SMD-Versions are approved in the following environmental conditions:

Test	IEC 60068	MILSTD-	Test conditions
	Part		
Sealing test	2-17	883E - Meth. 1014	Fine leak: A1 2 x 10 ⁻⁸
Shock	2-27	202F - Meth. 213B	A: 50g; 11ms;half-sine
Vibration, sinusoidal	2-6	202F -Meth. 204D	B: 1055Hz 0,75mm;
			552kHz 10g; 30 min/axis
Thermal Shock	2-14	883E - Meth. 1011	A: 100 °C to 0 °C, water,
			15 cycles
Endurance tests			
- aging			20 days @ 55°C (100%)
 extended 			>1000 days @ 55℃
aging			(approval samples)

The oscillator hybrid microcircuit design and construction is in accordance with applicable design and construction requirements.

The final test procedure includes all points of electrical specification especially a 100% test of

- -frequency adjustment calibration
- -frequency stability vs. operating temperature range
- -long-term stability measurement
- -short-term stability measurement
- -output waveform

Resistance to soldering Heat

The oscillators will withstand the conventional Soldering-processes as manual, wave and infra-red reflow.

The use of vapour phase reflow is not applicable.
The IR-soldering profile for the SMD-models QO1320S, QO1422S, QO2020S and QO2024S is shown below.



Manufacturer:

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