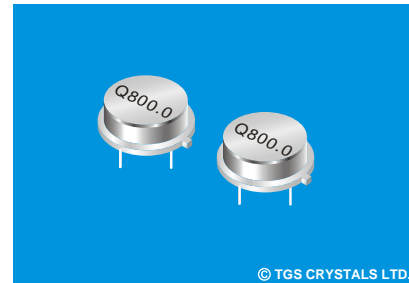


FEATURES

- The SRQ800-T is a true two-port, Surface-acoustic-wave(SAW) resonator in a low-profile, TO-39 case. It provides reliable, fundamental-mode, quartz frequency stabilization of fixed-frequency transmitters operating at 800.00MHz.

APPLICATIONS

- Communication



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SPECIFICATION *

Parameters		Product	Option Code
		SRQ	SRQ
Centre Frequency(f_c) :		800.000MHz	▲ 800.000
Frequency Tolerance(Δf_c):		± 150 KHz ± 200 KHz ± 250 KHz	△ C △ D △ E
Temp. Stability	Turnover Temp(T_o):	55°C Max.	▲
	Turnover Frequency(f_o):	f_c 800.0 MHz	▲
	Frequency Temp. Coefficient (FTC):	0.037ppm/°C ²	▲
Insertion Loss(IL):		9.0 dB Max.	▲
Operating Temp. Range:		-10°C~+60°C	▲
Storage Temp. Range:		-40°C~+85°C	▲
Quality Factor	Unloaded Q(Q_u):	9,940	▲
	50 Ω Loaded Q(Q_L):	5,500	▲
DC Insulation Resistance between Any Two Pins:		1.0M Ω Min.	▲
Frequency Aging Absolute Value During the First Year(fA):		≤ 10 ppm/year	▲
RF Equivalent RLC Model	Motional Resistance(R_m):	182 Ω Max.	▲
	Motional Inductance(Lm):	289.562 μ H	▲
	Motional Capacitance(Cm):	0.1908 fF	▲
	Shunt Static Capacitance (Co):	1.65 pF	▲
CW Therefore Power Dissipation:		+10dBm	▲
DC Voltage Between Any Two Pins:		± 30 V DC	▲
Case Temperature:		-40°C~+85°C	▲
Holder Type:		TO-39	△ T
Package:		Tube	△ U

▲ Standard * Specifications Subject to Change Without Notice
△ Optional: please specify required code when inquiring or ordering

NOTE

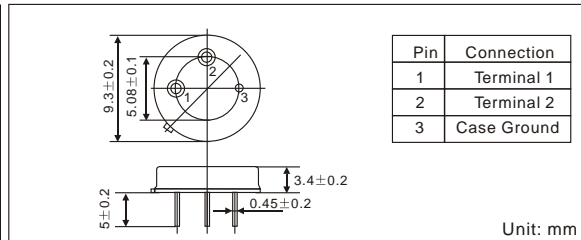
1. Electrostatic Sensitive Device. Observe precautions for handling
2. Freq. Aging is the change in f_c with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temp. Above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
3. The centre freq. f_c , is the freq. Of minimum IL with the resonator in the specified test fixture in a 50 Ω test system with VSWR $\leq 1.2:1$. Typically, $f_{oscillator}$ or $f_{transmitter}$ is less than the resonator f_c .
4. Typically, equipment utilizing this device requires emissions testing and government approval. Which is the responsibility of the equipment manufacturer
5. Unless noted otherwise, case temperature $T_c = +25^\circ\text{C} \pm 2^\circ\text{C}$.
6. The design, manufacturing process, and specifications of this device are subject to change without notice.
7. Derived mathematically from one or more of the following directly measured parameters: f_c , IL, 3 dB bandwidth, f_c versus T_c , and C_o
8. Turnover temperature, T_o , is the temperature of maximum (or turnover) freq., f_o . The nominal center freq. at any case temp., T_c , may be calculated from: $f = f_o [1 - \text{FTC} (T_c - T_o)^2]$. Typically, oscillator T_o is 20°C less than the specified resonator T_o .

PART NUMBER GUIDE

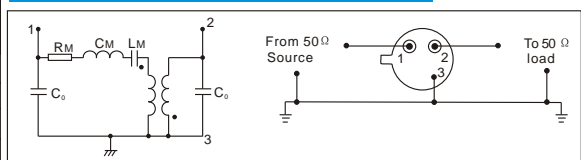
TGS	SRQ	800	C	T	U
Mark	SAW Resonators Two-Port	Centre Freq.	Frequency Tolerance	Holder Type	Package

e.g. TGS SRQ 800.0 C T U

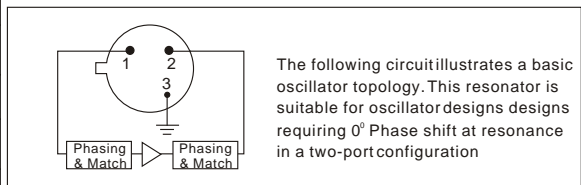
DIMENSIONS



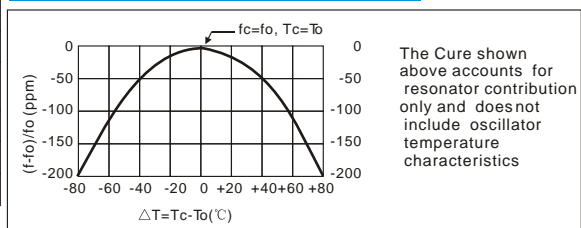
EQUIVALENT LC MODE TEST CIRCUIT



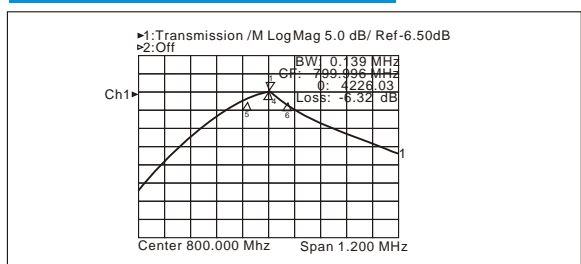
TYPICAL APPLICATION CIRCUIT



TEMPERATURE CHARACTERISTICS



TYPICAL FREQUENCY RESPONSE



PACKAGE

- Standard package in Tube: 20pcs/Tube.