FEATURES

• The SRQ824.25-T is a true two-port, 180° Surface-acoustic-wave(SAW) resonator in a low-profile, TO-39 case. It provides reliable, fundamental-mode, quartz frequency stabilization of fixed-frequency LOS operating at 824.25MHz.

APPLICATIONS

Communication

SPECIFICATION *

	110N A	Product	Option Code	
Parameters			SRQ	SRQ
Centre Frequ	iency(fc) :	824.25MHz	A	824.250
Frequency Tolerance(△fc):		±150KHz ±200KHZ ±250KHZ	Δ Δ Δ	C D E
	Turnover Temp(A		
Temp. Stability	Turnover Freque	A		
	Frequency Temp (FTC):	A		
Insertion Lo	` '	A		
Operating Te		A		
Storage Tem		-40℃~+85℃	A	
Quality	Unloaded Q(Qu):	7,000	A	
Factor	50 Ω Loaded Q(C	(L): 3,500	A	
Pins:	n Resistance betw	A		
	Aging Absolute			
the First Ye	_ ` ′	A		
	Motional Resista	151 Ω Max.	A	
RF Equivalent	Motional Inducta	135.232 µ H	A	
RLC Mode	Motional Capaci	•		
	Shunt Static Ca (Co):	pacitance 2.65 pF	A	
CW Therefo	re Power Dissipa	A		
DC Voltage	Between Any Two	A		
Case Temperature:		-40℃~+85℃	A	
Holder Type:		TO-39	Δ	Т
Package:		Tube	Δ	U

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

- Electrostatic Sensitive Device. Observe precautions for handling
 Freq. Aging is the change in fc with time and is specified at +65℃ or less. Aging may exceed the specification for prolonged temp. Above +65℃. Typiclly, aging
- is greatest the first year after manufacture, decreasing in subsequent years.

 3. The centre freq. Fc , is the freq. Of minimum IL with te resonator in te specified test fixture in a 50Ω test system with VSWR ≤1.2:1. Typically, foscillator or er is less than the resonator fc.
- 4. Typically, equipment utilizing this device requires emissions testing and government approval. Which s the responsibility of the equipment manufacturer 5.Unless noted otherwise, case temperature Tc=+25°C±2°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: fc, IL, 3 dB bandwidth, fc versus Tc, and Co
- The nominal center freq. at any case temp., Te, and the same of the nominal center freq. at any case temp., Te, may be calculated from :f= fo [1-FTC (To-To)²]. Typically, oscillator To is 20°C less than the specified

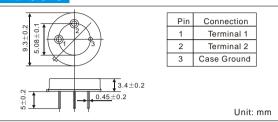
PART NUMBER GUIDE

TGS	SRQ	824.25	С	Т	U
Mark	SAW Resonators	Centre	Frequency	Holder	Package
Two-Port		Freq.	Tolerance	Type	_

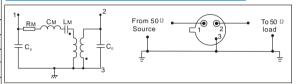
e.g. TGS SRQ 824.25 C T U



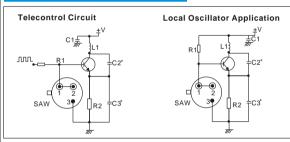
DIMENSIONS



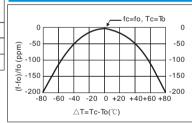
EQUIVALENT LC MODE AND TEST CIRCUIT



TYPICAL APPLICATION CIRCUIT

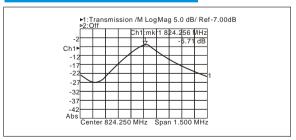


TEMPERATURE CHARACTERISTICS



The Cure shown above accounts for resonator contribution only and does not include oscillator temperature characteristics

TYPICAL FREQUENCY RESPONSE



PACKAGE

• Standard package in Tube: 20pcs/Tube.