FEATURES

● The SR310-T is a true one-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 310.0MHz.

APPLICATIONS

Remote Control

SPECIFICATION *

В	arameters	Product	Option Code			
Р	arameters	SR	SR			
Centre Frequ	iency(fc) : 310.000MHz	A	310.000			
Frequency '	Tolerance(△fc): ±75KHz	Δ	А			
	\pm 100KHz	Δ	В			
	\pm 150KHz	Δ	С			
	±200KHz	Δ	D			
	Turnover Temp(To): 55°C Max.	A				
Temp. Stability	Turnover Frequency(fo):					
	fc 310.0 MHz	A				
	Frequency Temp. Coefficient					
	(FTC): 0.037ppm/^2	A				
Insertion Lo	. ,	A				
Operating Te	1 0 1000	A				
Storage Tem	; 	A				
Quality Factor	Unloaded Q(Qu): 15,333	A				
	50 Ω Loaded Q(Q _L): 2,000	A				
DC Insulation	n Resistance between Any Two					
Pins:	1.0M Ω Min.	A				
Frequency	Aging Absolute Value During					
the First Ye	ear(fA): ≤10ppm/year	A				
RF	Motional Resistance(Rм): 24 Ω Max.	A				
	Motional Inductance(Lм):					
Equivalent	118.143 µ H	A				
RLC Model	Motional Capacitance(C _M): 2.2333 fF	•				
	Shunt Static Capacitance	A				
	(Co): 2.1 pF	_				
CW Therefo	re Power Dissipation: +10dBm	A				
DC Voltage	Between Any Two Pins:					
	±30V DC	A				
Case Temperature: -40°C~+		A				
Holder Type	TO-39	Δ	Т			
Package:	Tube	A	U			
▲ Standard ★ Specifications Subject to Change Without Notice						

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

- 1: Electrostatic Sensitive Device. Observe precautions for handling
 2. Freq. Aging is the change in fc with time and is specified at +65°C or less. Aging
 may exceed the specification for prolonged temp. Above +65°C. Typic
- The centre freq. Fc , is the freq. Of minimum IL with te resonator in te specified test fixture in a 50 Ω test system with VSWR≤1.2:1. Typically, foscillator or
- ftransmiter is less than the resonator fc.

 4. Typically, equipment utilizing this device requires emissions testing and
- 4. Typically, equipment unificing this device requires emissions testing and government approval. Which is the responsibility of the equipment manufacturer 5.Unless noted otherwise , case temperature Tc=+25℃±2℃.
 6.The design, manufacturing process, and specifications of this device are subject to change without notice.
 7. Deviced methods the process of the following and the process of the following areas as a process of the following areas as a process.
- 7.Derived mathematically from one or more of the following directly measured parameters: fc, IL, 3 dB bandwidth, fc versus Tc, and Co
- R-Turnover temperature, To, is the temperature of maximum (or turnover) freq., fo, The nominal center freq. at any case temp., Tc, may be calculated from :f= fo[1-FTC (To-To)²]. Typically, oscillator To is appr. equal to the specified

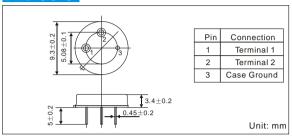
PART NUMBER GUIDE

TGS	SR	310	Α	Т	U
Mark	SAW Resonators			Holder	Package
	One-Port	Freq.	Tolerance	Type	

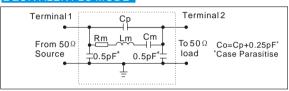
e.g. TGS SR 310.0 A T U



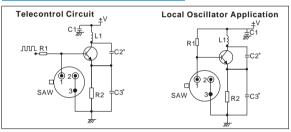
DIMENSIONS



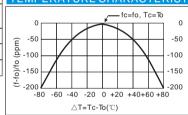
EQUIVALENT LC MODE



TYPICAL APPLICATION CIRCUIT

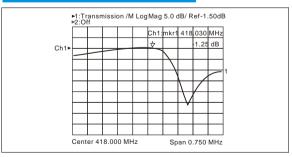


TEMPERATURE CHARACTERISTICS



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.

