FEATURES

• The SR314.5-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 for 314.5MHz LOS in 315MHz receivers

APPLICATIONS

Remote Control

SPECIFICATION *

		Product	Option Code	
Parameters			SR	SR
Centre Frequency(fc) :		314.500MHz	A	314.500
Frequency	Tolerance(∆fc):	±75KHz ±100KHz ±150KHz +200KHz	\triangle	A B C D
	Turnover Temp(<u> </u>	
Temp. Stability	Turnover Freque	ency(fo): fc 314.5 MHz		
	Frequency Temp (FTC):	o.Coefficient 0.037ppm/℃²	A	
Insertion Loss(IL): 2.0 dB Max.		2.0 dB Max.	•	
Operating Te	mp. Range:	-10℃~+60℃	A	
Storage Tem	p. Range:	-40℃~+85℃	A	
Quality	Unloaded Q(Q∪):	12,500	•	
Factor	50 Ω Loaded Q(Q	L): 2,000	A	
	n Resistance betw	een Any Two		
Pins:		A		
	Aging Absolute			
the First Ye	_ ` ´	≤10ppm/year	A	
	Motional Resista	26 Ω Max.	A	
RF Equivalent	Motional Inducta	ance(Lм): 120.503 µ Н	A	
RLC Model	M - 4! 1 O :	tance(См): 2.1274 fF	A	
	Shunt Static Ca (Co):	2.25 pF	A	
CW Therefo	re Power Dissipa	A		
DC Voltage	Between Any Two	A		
Case Temperature:		-40°C~+85°C	A	
Holder Type:		TO-39	Δ	Т
Package:		Δ	U	
▲ Standard	* Specifications	o Cubicat to Char	\ \ / i+b	. NI=4!==

* Specifications Subject to Change Without Notice △ 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. TypicIlly, 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 50° test system with VSWR ≤1.2:1. Typically, fiscillator or
- ftransmiter 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 $^{\circ}$ C $\pm 2^{\circ}$ C.
- The design, manufacturing process, and specifications of this device are subject to change without notice.
- 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

 8. 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= fc [1-FTC (To-Tc)²]. Typically, oscillator To is appr. equal to the specified resonator To.

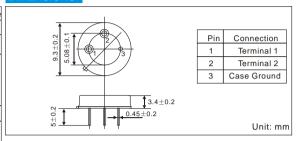
PART NUMBER GUIDE

	TGS	SR	314.5	Α	Т	U
I	Mark	SAW Resonators	Centre	Frequency	Holder	Package
		One-Port	Freq.	Tolerance	Type	

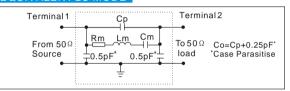
e.g. TGS SR 314.5 A T U



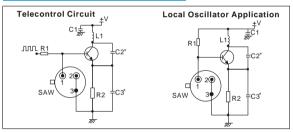
DIMENSIONS



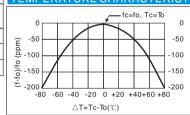
EQUIVALENT LC MODE



TYPICAL APPLICATION CIRCUIT

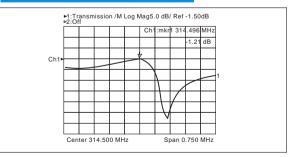


TEMPERATURE CHARACTERISTICS



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.

