#### **FEATURES**

 The SR433.92-T is a true one-port, Surface-acoustic-wave(SAW) resonator in a low-profile, TO-39 case. It provides reliable, fundamental-mide, quartz frequency stabilization of fixed-frequency transmitters operating at 433.92MHz.

### **APPLICATIONS**

Remote Control

# SPECIFICATION \*

Parameters			Option Code
rarameters		SR	SR
ency(fc) :	433.920MHz	<b>A</b>	433.920
Tolerance(△fc):	±75KHz	Δ	А
	$\pm 100 \text{KHz}$	Δ	В
	$\pm$ 150KHz	Δ	С
	$\pm$ 200KHz	Δ	D
Turnover Temp(	<b>A</b>		
	<b>A</b>		
Frequency Temp			
(FTC):	0.037ppm/℃²	<b>A</b>	
ss(IL):	<b>A</b>		
mp. Range:	<b>A</b>		
p. Range:	<b>A</b>		
Unloaded Q(Qu):	9,000	<b>A</b>	
50 Ω Loaded Q(Q	(L): 2,000	<b>A</b>	
n Resistance betw	een Any Two		
	<b>A</b>		
Aging Absolute	Value During		
ear(fA):	<b>A</b>		
Motional Resista	ance(Rм): 41ΩMax.	<b>A</b>	
Motional Inducta			
Motional Capaci		_	
` '		<b>A</b>	
•		_	
Detween Any IW	±30V DC	<b>A</b>	
Case Temperature: -40°C~+85°C			
Holder Type:		Δ	Т
Package: Tube			U
	Turnover Temp('Turnover Frequency Temp(FTC): oss(IL): mp. Range: p. Range: Unloaded Q(Qu): 50 Ω Loaded Q(Qn Resistance betwo Aging Absolute ear(fA): Motional Resistance Motional Inductation Motional Capaci Shunt Static Ca (Co): re Power Dissipa Between Any Two Prature:	Tolerance (Δfc):	Pency(fc) : 433.920MHz

▲ 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 fc with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temp. Above +65°C. Typiclly, aging is greatest the first year after manufacture, decreasing in subsequent years.
- inay exceed the specimation for prototing determs. Above +00 €. Typicity, 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 Ω test system with VSWR ≤1.2:1. Typically, fiscillator or fransmiter is less than the resonator fc.
- 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
- 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= fo [1-FTC (To-To)²]. Typically, oscillator To is 20°C less than the specified resonator To.

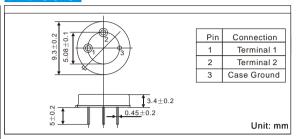
# PART NUMBER GUIDE

TGS	SR	433.92	Α	Т	U
Mark	SAW Resonators One-Port	Centre Freq.	Frequency Tolerance	Holder Type	Package

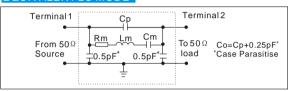
e.g. TGS SR 433.92 A T U  $\,$ 



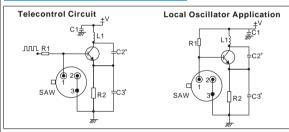
### DIMENSIONS



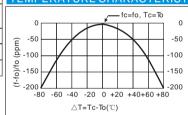
#### **EQUIVALENT LC MODE**



# TYPICAL APPLICATION CIRCUIT

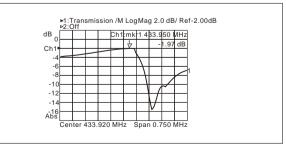


# TEMPERATURE CHARACTERISTICS



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.

