FEATURES

• The SR418-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 418.0MHz.

APPLICATIONS

Remote Control

SPECIFICATION *

Parameters			Product	Option Code			
			SR	SR			
Centre Frequency(fc) :		418.000MHz	A	418.000			
Frequency Tolerance(△fc): ±75KHz ±100KHz ±150KHz +200KHz		Δ Δ Δ	A B C D				
	Turnover Temp(To): 55℃Max.	A				
Temp. Stability	Turnover Frequent fc	cy(fo): 418.0 MHz	A				
	Frequency Temp. (FTC):	oefficient .037ppm/℃²	A				
Insertion Loss(IL): 2.2 dB Max.		2.2 dB Max.	A				
Operating Temp. Range: -10℃~+60℃		-10℃~+60℃	A				
Storage Temp. Range: -40 ℃~+85 ℃			A				
Quality	Unloaded Q(Q∪):	12,500	A				
Factor	50 Ω Loaded Q(QL):	2,000	A				
1	n Resistance betwee						
Pins: 1.0M Ω Min.			A				
	Aging Absolute Va	lue During					
the First Ye		A					
	Motional Resistan	се(Rм): 29ΩMax.	A				
RF Equivalent	Motional Inductan	ce(Lм): 90.665 µ Н	A				
RLC Model	Motional Capacita	nce(См): 1.6006 fF	A				
	Shunt Static Capa (Co):	1.8 pF	A				
CW Therefo	re Power Dissipatio	n: +10dBm	A				
DC Voltage	Between Any Two F	A					
Case Temperature: -40		-40℃~+85℃	A				
Holder Type:		TO-39	Δ	Т			
Package: Tube			Δ	U			
▲ Standard ★ Specifications Subject to Change Without Notice							

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

NOTE

- 1: Electrostatic Sensitive Device. Observe precautions for handling
- 7. 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℃. TypicIly, aging
- in a percent in experimental in the proling of terms. Above + o Sc. 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 50Ω 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 $Tc=+25\%\pm2\%$. 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 8.Turnover temperature, To, is the temperature of maximum (or turnover) freq., fo, The nominal center freq. at any case temp. , T_c , may be calculated from :f= fo [1-FTC (T_0 - T_c) 2]. Typically, oscillator T_0 is 20 °C less than the specified resonator To

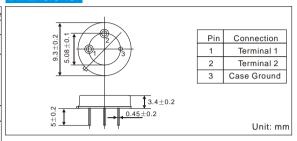
PART NUMBER GUIDE

TGS	SR	418	Α	Т	U
	SAW Resonators			Holder	Package
	One-Port	Freq.	Tolerance	Type	

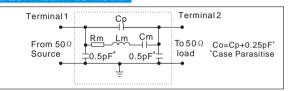
e.g. TGS SR 418.0 A T U

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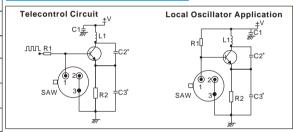
DIMENSIONS



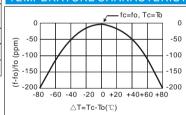
EQUIVALENT LC MODE



TYPICAL APPLICATION CIRCUIT

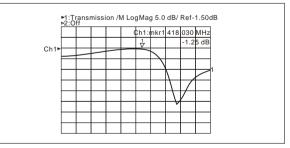


TEMPERATURE CHARACTERISTICS



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.