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FEATURES

• The SR868.30-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 868.30MHz.

APPLICATIONS

Remote Control

SPECIFICATION *

		Product	Option Code	
Parameters			SR	SR
Centre Frequency(fc) :		868.300MHz	A	868.300
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 Loss(IL): 2.0 dB Max.			A	
Operating Temp. Range: -10℃~+60℃			A	
Storage Tem		-40℃~+85℃	A	
Quality Factor	Unloaded Q(Qu):	9,400	A	
	50 Ω Loaded Q(C	L): 1,500	A	
DC Insulation	n Resistance betw			
Pins:		A		
	Aging Absolute			
the First Ye		A		
RF Equivalent RLC Model	Motional Resista	ance(Rм): 26ΩMax.	A	
	Motional Inducta	32.735 µ H	A	
		1.0274 fF	A	
	Shunt Static Ca (Co):	2.0 pF	A	
CW Therefo	re Power Dissipa	•		
DC Voltage	Between Any Two	•		
Case Temp	-40°C~+85°C	•		
Holder Type	e:	TO-39	Δ	Т
Package:		Tube	Δ	U

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

NOTE

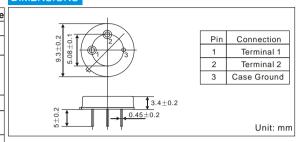
- 1: Electrostatic Sensitive Device. Observe precautions for handling
- 2. Freq. Aging is the change in fc with time and isspecified at +65°C or less. Aging may exceed the positioning for the change in fc with time and isspecified at +65°C or less. Aging may exceed the positioning for the change in the change i may exceed the specification for prolonged temp. Above +65°C. Typiclly, aging is greatest the firstyear after manufacture, decreasing in subsequent years.
- 3. The centrefreq. 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 government approval. Which's the responsibility of the equipment manufacturer
- 5.Unless noted otherwise, case temperature Tc=+25 $^{\circ}$ C ± 2
- 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: f_c, IL, 3dB bandwidth, f_c versus T_c, and C_o
- 8. Turnover temperature, T_o is the temperature of maximum (or turnover) freq., f_o The nominal center freq.at any case temp., Tc, may be calculated from :f= $f_{_{o}}$ [1-FTC $(T_{_{o}}\text{-}T_{_{c}})^{2}].$ Typically, oscillator $T_{_{o}}$ is 20 $^{\circ}\!\mathbb{C}$ less than the specified resonator To

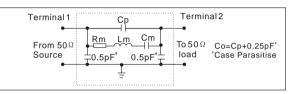
PART NUMBER GUIDE

TGS	SR	868.3	С	Т	U
Mark	SAW Resonators	Centre	Frequency	Holder	Package
	One-Port	Freq.	Tolerance	Type	

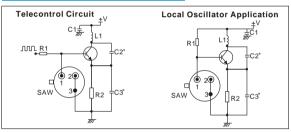
e.g. TGS SR 868.3 C T U

DIMENSIONS

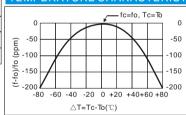




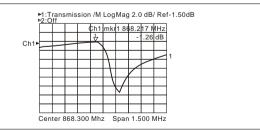
TYPICAL APPLICATION CIRCUIT



TEMPERATURE CHARACTERISTICS



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



PACKAGE

Standard package in Tube: 20pcs/Tube.

