FEATURES

• The SR304.3-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 304.3MHz LOS in 315MHz receivers

APPLICATIONS

Remote Control

SPECIFICATION *

D	aramotore	Product	Option Code			
Parameters		SR	SR			
Centre Frequency(fc):		304.300MHz	A	304.300		
Frequency Tolerance(△fc		±75KHz	Δ	А		
		\pm 100KHz	Δ	В		
		\pm 150KHz	Δ	С		
		± 200 KHz	Δ	D		
	Turnover Temp(A			
Temp. Stability	Turnover Freque					
		A				
	Frequency Temp					
	(FTC):	0.037ppm/℃²	A			
Insertion Loss(IL): 2.0 dB Max.			A			
Operating Temp. Range: -10°C~+60°C Storage Temp. Range: -40°C~+85°C			A			
Storage Tem	-	A				
Quality Factor	Unloaded Q(Qu):	15,333	A			
	50 Ω Loaded Q(C	L): 2,000	A			
DC Insulation	n Resistance betw					
Pins: $1.0M \Omega$ Min.			A			
	Aging Absolute	Value During				
the First Year(fA): <10ppm/year			A			
	Motional Resista	ance(Rм): 21ΩMax.	A			
RF	Motional Inducta					
Equivalent		120.356 µ H	A			
RLC Model	Motional Capaci	tance(См): 2.2752 fF	A			
	Shunt Static Ca (Co):	pacitance 2.0 pF	A			
CW Therefore Power Dissipation: +10dBm			A			
DC Voltage Between Any Two Pins:			A			
Case Temperature: -40°C~+85°C			A			
Holder Type:		TO-39	Δ	Т		
Package: Tube			Δ	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. Typiclly, aging is greatest the first year after manufacture, decreasing in subsequent years.

 3. The centre freq. Fc , is the freq. Of minimum IL with the resonator in te specified test fixture in a 50 \(\Omega\$ test system with VSWR ≤1.2:1. Typically, f_{scellator} 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.
- 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
- S. Turnover temperature, T_0 , is the temperature of maximum (or turnover) freq., fo, The nominal center freq. at any case temp., T_0 , may be calculated from :f= fo [1-FTC $(T_0-T_0)^2$]. Typically, oscillator T_0 is appr. equal to the specified

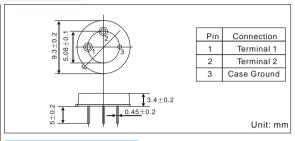
PART NUMBER GUIDE

TGS		304.30	Α	Т	U
Mark	SAW Resonators	Centre	Frequency	Holder	Package
	One-Port	Freq.	Tolerance	Type	

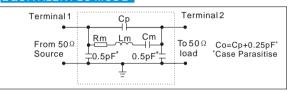
e.g. TGS SR 304.3 A T U



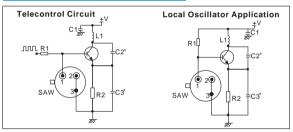
DIMENSIONS



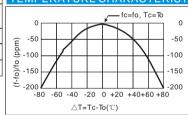
EQUIVALENT LC MODE



TYPICAL APPLICATION CIRCUIT

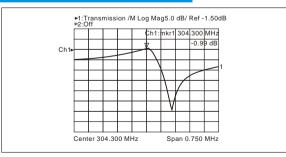


TEMPERATURE CHARACTERISTICS



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.

