FEATURES

• The SR403.55 -M3 is a true one-port, Surface-acoustic-wave(SAW) resonator in a low-profile, M3 case. It provides reliable, fundamental-mide, quartz frequency stabilization of fixed-frequency LOS operating at 403.550MHz.

APPLICATIONS

Remote Control

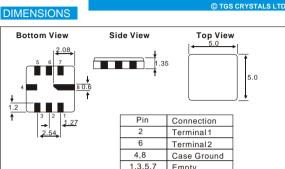
SPECIFICATION

			Product	Option Code			
P	arameters	SR	SR				
Centre Frequency(fc): 403.55MHz		A	403.55				
Frequency Tolerance(△fc): ±75KHz		Δ	Α				
	, ,	$\pm 100 { m KHz}$	$\overline{\wedge}$	В			
		±150KHz	$\overline{\triangle}$	С			
		$\pm 200 { m KHz}$	Δ	D			
	Turnover Temp(A					
Temp.	Turnover Freque						
Stability		A					
	Frequency Temp (FTC):	0.Coefficient 0.037ppm/°C²	A				
Insertion Lo		•					
Operating Te	emp. Range:	A					
Storage Tem	p. Range:	-40℃~+85℃	A				
Quality	Unloaded Q(Qu):	16,400	•				
Factor	50 Ω Loaded Q(C	(L): 2,100	A				
DC Insulation	n Resistance betw						
Pins:		1.0M Ω Min.	A				
	Aging Absolute						
the First Ye	ear(fA):	≤10ppm/year	•				
	Motional Resista	ance(Rм): 28ΩMax.	A				
RF	Motional Inducta						
Equivalent		A					
RLC Model	Motional Capaci	A					
	Shunt Static Ca (Co):	pacitance 1.8 pF	A				
CW Therefo	re Power Dissipa	tion: +10dBm	A				
	Between Any Two						
		\pm 30V DC	A				
Case Temp	erature:	A					
Soldering T	emperature:	A					
Reference (Characteristics:	A					
	g source impedar	<u> </u>					
	g source impedar	A					
Holder Type	5.02	Δ	M3				
Package:		Tape/Reel	Δ	Т			
▲ Standard * Specifications Subject to Change Without Notice							

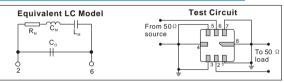
Specifications Subject to Change Without Notice △ Optional: please specify required code when inquiring or ordering

NOTE

- 1. Electrostatic Sensitive Device. Observe precautions for handling 2. Freq. aging is the change in f₀ with time and is specified at +65℃ or less. Aging
- may exceed the specification for prolonged temp. above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 3. The center freq., fc, is measured at the minimum insertion loss point, ILmin, with the resonator in the 50 Ω test system (VSWR≤1.2:1). Tpically, Tfoscillator or ftransmitter is appr. equal to the resonator fc.
- 4. Typically, equipment utilizing this device requires emissions approval, which is the responsibility of the equipment manufacturer. 5. Unless noted otherwise , case temperature Tc=+25 $^{\circ}$ C ± 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
- 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= f_{\circ} [1-FTC $(T_{\circ}\text{-}T_{c})^{2}].$ Typically, oscillator T_{\circ} is appr. equal to the specified resonator To.



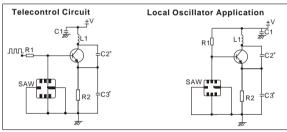
EQUIVALENT LC MODEL AND TEST CIRCUIT



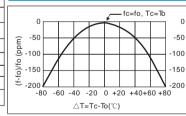
Empty

Unit: mm

TYPICAL APPLICATION CIRCUIT

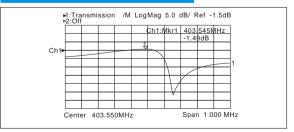


TEMPERATURE CHARACTERISTICS



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

TYPICAL FREQUENCY RESPONSE



PACKAGE

 Standard package in T/R: 3000pcs/Reel, 2Reel/box, 5box/Carton See page 182 for detail dimensions

PART NUMBER GUIDE

	TGS	SR	403.55	A	М3	Т
ı	Mark	SAW Resonators One-Port	Centre Freq.	Freq. Tolerance	Holder Type	Package

e.g. TGS SR 403.55 A M3 T

Updated on JUN. 2009

