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FEATURES

The SR857.65-M3 is a true one-port, Surface-acoustic-wave(SAW) resonator in a low-profile,
 M3 case. It provides reliable, fundamental-mode, quartz frequency stabilization of
 for 857.65MHz LOS in 868.35MHz receives

APPLICATIONS

Remote Control

SPECIFICATION *

	<u> </u>	Product	Option Code				
Parameters			SR	SR			
Centre Frequency(fc): 857.650N		857.650MHz	A	857.650			
Frequency	Tolerance(∆fc):	±150KHz ±200KHZ ±250KHZ	△ △ △	C D E			
Temp. Stability	Turnover Temp(To): 55℃Max.	•				
	Turnover Freque	A					
	Frequency Temp (FTC):	o.Coefficient 0.037ppm/°C²	•				
Insertion Lo	oss(IL):	A					
Operating Temp. Range: -10°C~+60°C			•				
Storage Tem	<u> </u>	•					
Quality Factor	Unloaded Q(Qu):	8,142	A				
	50 Ω Loaded Q(G	L): 1,300	A				
DC Insulation Pins:	n Resistance betw	•					
Frequency	Aging Absolute						
the First Ye	ear(fA):	A					
RF Equivalent RLC Model	Motional Resista	A					
	Motional Induct	•					
	Motional Capaci	•					
	Shunt Static Ca (Co):	pacitance 2.7 pF Max.	•				
CW Therefo	re Power Dissipa	tion: +10dBm	A				
DC Voltage	Between Any Tw	•					
Case Temperature: -40°C~+85°C			•				
Soldering T	emperature:	A					
Holder Type: 5.0X5.0X1.35mm		Δ	М3				
Package:		Δ	Т				
▲ Standard ★ Specifications Subject to Change Without Notice							

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△ Optional: please specify required code when inquiring or ordering

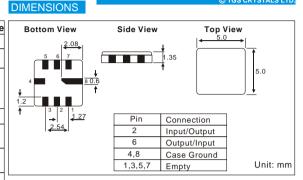
NOTE

- 1. Electrostatic Sensitive Device. Observe precautions for handling 2.Freq. aging is the change in f_c with time and is specified at +65 $^\circ$ C or less. Aging
- 2.Freq. aging is the change in f₂ with time and is specified at +65 °C 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.
- Typically, equipment utilizing this device requires emissions approval, which is the responsibility of the equipment manufacturer.
- 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 parameters: fe, IL, 3 dB bandwidth, fe versus $T_{\rm c}$, and $C_{\rm o}$
- 8. Turnover temperature, T_o, is the temperature of maximum (or turnover) freq., f_o, The nominal center freq, at any case temp., T_o, may be calculated from :f= f_o [1-FTC (T₀-T_c)²]. Typically, oscillator T_o is appr. equal to the specified resonator T_o.

PART NUMBER GUIDE

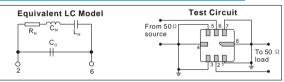
TG	S	SR	857.65	С	М3	Т
Ma	rk S	AW Resonators	Centre	Frequency	Holder	Package
	0	ne-Port	Freq.	Tolerance	Type	

e.g. TGS SR 857.65 C M3 T

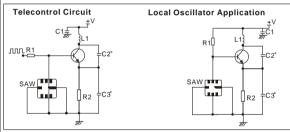


857.65

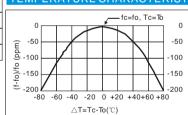
EQUIVALENT LC MODEL AND TEST CIRCUIT



TYPICAL APPLICATION CIRCUIT

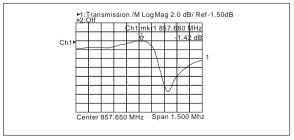


TEMPERATURE CHARACTERISTICS



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 deil dimensions

