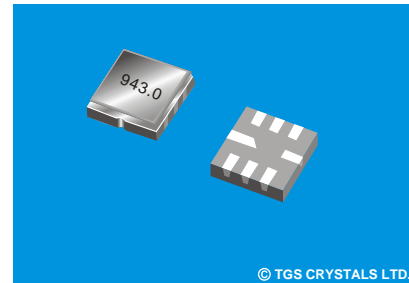


**FEATURES**

- The SF943-M3 is a low-loss, compact, and economical surface-acoustics-wave (SAW) filter de-signed to provide front-end selectivity in 943 MHz receivers. Receiver designs using this filter include superhet superhet with 10.7MHz or 500KHz If, direct conversion and superregen.

**APPLICATIONS**

- Communication



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**SPECIFICATION** \*

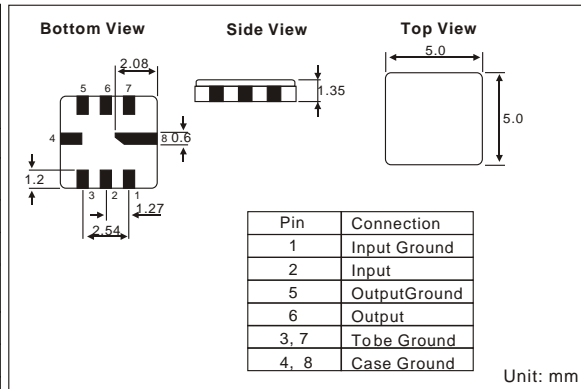
Parameters		Product	Option Code
		SF	SF
Centre Frequency(fc) :	943.000MHz	▲	943.000
Insertion Loss(IL):	6.0dB Max.	▲	
Operating Temp. Range:	-10°C~+60°C	▲	
Storage Temp. Range:	-45°C~+85°C	▲	
User signal passband(BW):	±17MHz	▲	
Rejection	DC to fc-85MHz: 40dB Min.	▲	
	fc+100MHz to fc+300MHz: 40dB Min.	▲	
Input Power Level:	10dBm	▲	
DC Voltage:	12V DC	▲	
Storage Temperature:	-45°C~+85°C	▲	
Holder Type:	5.0X5.0X1.35mm	△	M3
Package:	Taper/Reel	△	T

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

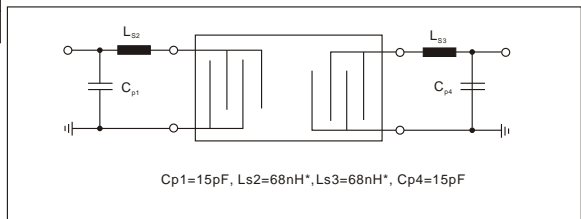
**NOTE**

1. Unless noted otherwise. All measurements are made with the filter installed in the specified test fixture which is connected to a 50 ohms test system with  $VSWR \leq 1.2:1$ . The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency, fc. Note that insertion loss and bandwidth and passband on the impedance matching component values and quality.
2. The frequency fc is defined as the midpoint between the 3dB frequency.
3. Where noted specifications apply over the entire specified operating temp. Range.
4. The turnover temperature, To, is the temperature of maximum (or turnover)freq. Fo. The nominal freq. At any case temp. Tc, may be calculated from:  $f=[1-FTC(T_o-T_c)]^2$ .
5. 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. Typically, aging is greatest the first year afire manufacture, decreasing significantly in subsequent years.
6. The design, manufacturing process, and specifications of this device are subject to change without notice.
7. All equipment designs utilizing this product must be approved by the appropriate prior to manufacture or sale.

**DIMENSIONS**



**TEST CIRCUIT**



**PACKAGE**

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

**PART NUMBER GUIDE**

TGS	SF	943	M3	T
Mark	SAW Filters	Centre Freq.	Holder Type	Package

e.g. TGS SF 943.0 M3 T

