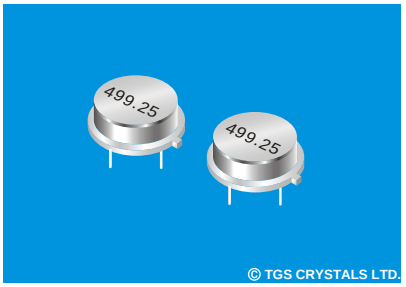
FEATURES

● The Specification is cover the SAW Filter 499.25MHz that is used CATV system.



APPLICATIONS

● Communication

SPECIFICATION ＊

Parameters			Product	Option Code
			SF	SF
Centre Frequency(fc) :		499.250MHz	▲	499.250
Temp. Stability	Turnover Temp(To):	54℃Max.	▲	
	Turnover Frequency(fo):	fc 499.25 MHz	▲	
	Frequency Temp. Coefficient (FTC):	0.032ppm/℃^{2}	▲	
Insertion Loss(IL):		4.5 dB Max.	▲	
Operating Temp. Range:		-10℃~+60℃	▲	
Storage Temp. Range:		-40℃~+85℃	▲	
3 dB Bandwidth(BW_3):		500KHz Max.	▲	
Pass band Ripple:		±1.0dB Max.	▲	
DC Insulation Resistance between Any Two Pins:		1.0MΩ Min.	▲	
Frequency Aging Absolute Value During the First Year(fA):		<10ppm/year	▲	
Rejection	nX6MHz (n=±1,±2,±3....:	20dBMin.	▲	
	Ultimate:	80dB	▲	
CW Therefore Power Dissipation:		+10dBm	▲	
DC Voltage Between Any Two Pins:		±30V DC	▲	
Case Temperature:		-40℃~+85℃	▲	
Reference Temp.:		TA=25℃	▲	
Terminating source impedance:		Zs=50Ω and matching network	▲	
Terminating load impedance:		ZL=50Ω and matching network	▲	
Holder Type:		TO-39	△	T
Package:		Tube	△	U

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

NOTE

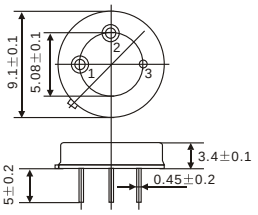
1. Electrostatic Sensitive Device. Observe precautions for handling !
2. Typical test circuit is shown for TO-39 RF filters.
3. Passband and reject bands are specified in reference to fc.
4. All characteristics are specified over the operating temperature and typical aging for 10 years.
5. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component valuer and quality. Demonstration circuits are available for confirmation of device performance.
6. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
7. The design, manufacturing process, and specifications of this device are subject without notice.
8. The turnover temperature, To, is the temperature of maximum (of turnover) frequency, fo. The nominal frequency at any case temperature, Tc, outside the operating temperature range may be calculated from: f=fo[1-FTC(To-Tc)2].

PART NUMBER GUIDE

TGS	SF	499.25	T	U
Mark	SAW Filters	Centre Freq.	Holder Type	Package

e.g. TGS SF 499.25 T U

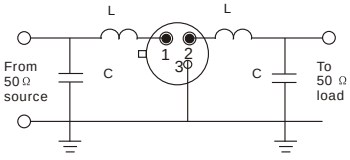
DIMENSIONS



Pin	Connection
1	Input/output
2	output/Input
3	Case Ground

Unit: mm

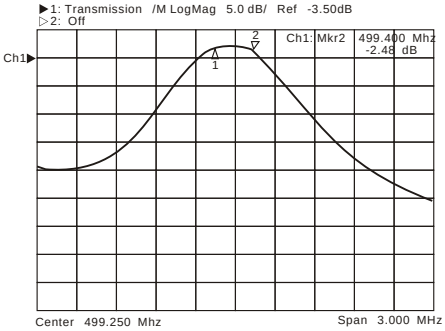
TEST CIRCUIT



Pin	Connection
1	Input/output
2	output/Input
3	Case Ground

C=6.8pF*
L=3.5 turns of 0.59mminsulated copper, 3.0mmID

TYPICAL FREQUENCY RESPONSE



1: Mkr (Mhz)	dB	2 Mkr (Mhz)	dB
1: 499.10	-1.76		
2: 499.40	-2.48		

PACKAGE

● Standard package in Tube: 20pcs/Tube.