

Features
<ul style="list-style-type: none"> <li>Frequencies from 70MHz to 140MHz</li> <li>Low amplitude ripple</li> <li>RoHS compliance</li> <li>Electrostatic sensitive device</li> <li>Compatible with EPCOS, TDK, etc</li> </ul>

Applications
<ul style="list-style-type: none"> <li>Industry</li> <li>Wireless Communication</li> <li>RF Filters for Cellular Phone</li> </ul>



**Part Numbering Guide**

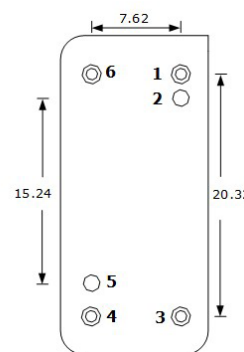
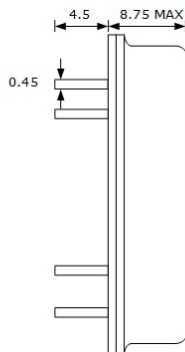
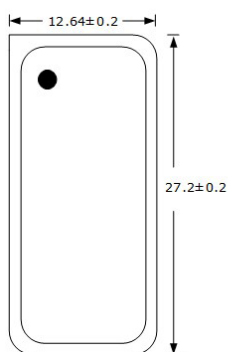
**S FL SI 27C12G 1F 20A - 70M**



\* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

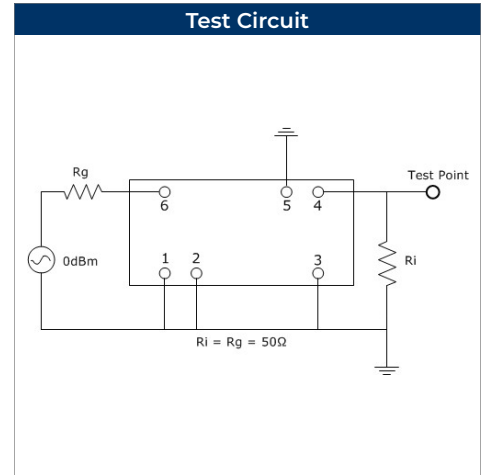
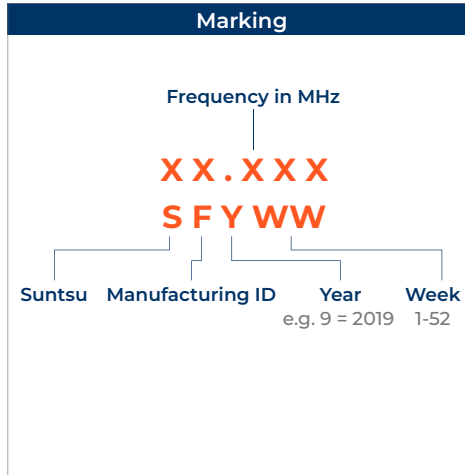
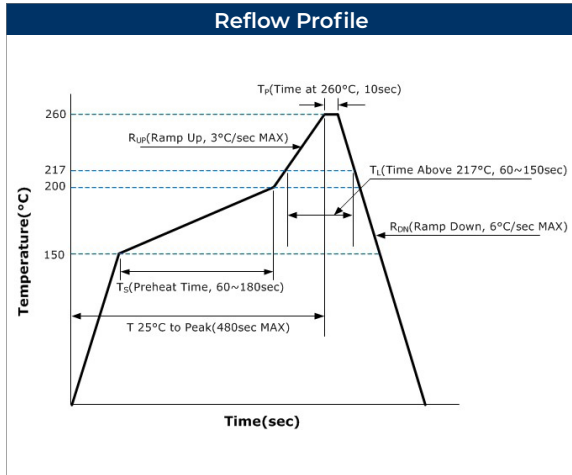
Electrical Parameters (at 25 °C)	Units	Minimum	Typical	Maximum	Remarks
Center Frequency	MHz	70		140	See part number reference (page 2).
Passband width	MHz	3.0		42	See part number reference (page 2).
Insertion Loss	dB	9		30	See part number reference (page 2).
DC voltage(VDC)	V		3.0		
Operating Temperature	°C	-40		85	
Storage Temperature	°C	-55		125	
Maximum Input Power	dBm		10		
Terminating Source Impedance	Ω		50		
Terminating Load Impedance	Ω		50		

**Outline Drawing**



PIN #	Function
6	INPUT
4	OUTPUT
1,2,3,5	GROUND

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



**Environmental & Mechanical Specifications**

High Temperature Storage	85°C (GRADE3), 1000h, unpowered
Temperature Cycling	-40°C / 85°C (GRADE3), 1000 cycles. Dwell time :15min. Transition time: < 20 s
Humidity Test	85°C/85% relative humidity, 1000h voltage acc. Data sheet [here: 0 V]
Operational Life	nominal RF power and maximum temperature acc.to data sheet. 85°C, 1000h
External Visual	Inspection acc. to MIL-STD-883 meth. 2009
Physical Dimension	Verification acc. to IEC 862-1
Mechanical Shock	30000 m/s <sup>2</sup> , 0.2ms, 1/2 Sin, 3x/direction
Vibration Test	10 to 2000 Hz, 0,75 mm ampl., 100 m/s <sup>2</sup>
Electrostatic Discharge	HBM : 1.5kOhm, 100pF, 1pulse +/- [here : all withstand 225VHBM]
Solderability	Solderability Solder reflow method (Pb-free), 230°C -0/+5°C, 10s (after preconditioning 155°C, 16h)
Resistance to Soldering Heat	255°C -0/+5°C, 20s

Part Number Reference	Center Frequency (MHz)	Bandwidth (MHz)	Insert Loss (dB)	Package Code
SFLSI-27C12G-3A9A-70M	70	3.0	9	27C12G
SFLSI-27C12G-10E20A-70M	70	10.4	20	27C12G
SFLSI-27C12G-9A20A-70M	70	9.0	20	27C12G
SFLSI-27C12G-14A18A-70M	70	14.0	18	27C12G
SFLSI-27C12G-14E22A-70M	70	14.4	22	27C12G
SFLSI-27C12G-14A22A-70M	70	14.0	22	27C12G
SFLSI-27C12G-30A24A-70M	70	30.0	24	27C12G
SFLSI-27C12G-32A26A-70M	70	32.0	26	27C12G
SFLSI-27C12G-16A23A-140M	140	16.0	23	27C12G
SFLSI-27C12G-20A23A-140M	140	20.0	23	27C12G
SFLSI-27C12G-33A25A-140M	140	33.0	25	27C12G
SFLSI-27C12G-42A30A-140M	140	42.0	30	27C12G
SFLSI-27C12G-40A28A-140M	140	40.0	28	27C12G