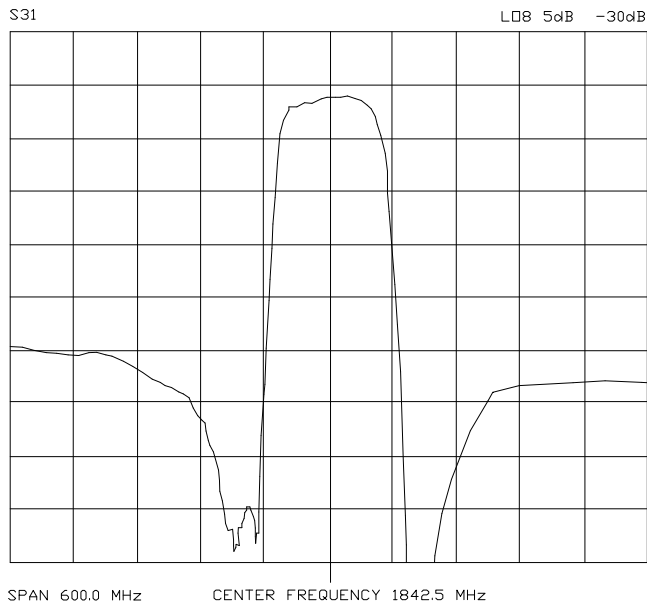


DESCRIPTION

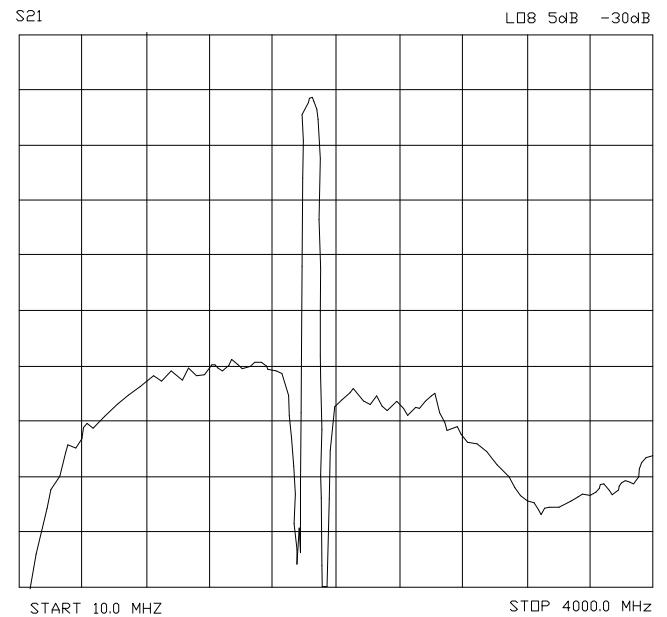
- 1842.5 MHz Mobil Communications SAW Filter
- 3 X 3 MM LCC Package.
- RoHS compliant.

TYPICAL PERFORMANCE

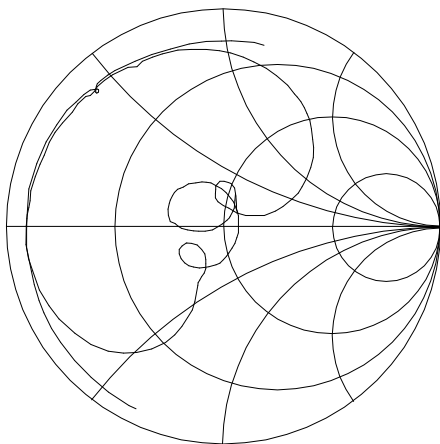
S21 (1542.5-2142.5 MHz)



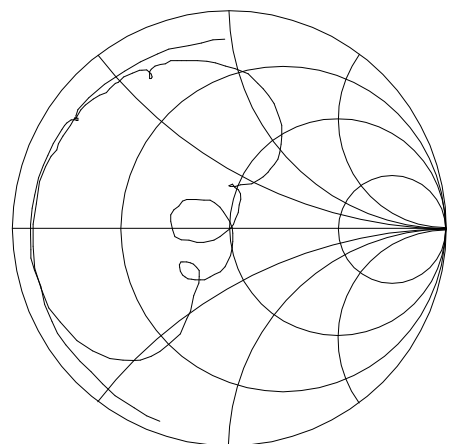
S21 (100-4000 MHz)



S11 (1542.5-2142.5 MHz)



S22 (1542.5-2142.5 MHz)



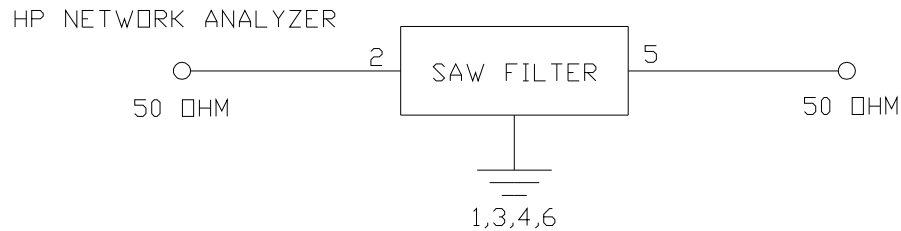
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc)		1842.5		MHz
Insertion Loss (1805 – 1880 MHz)	-	2.2	3.8	dB
Amplitude Ripple (1805 – 1880 MHz)	-	1.3	2.3	dB p-p
VSWR (1805 – 1880 MHz)	-	1.9	2.6	ns p-p
Attenuation (Reference level from 0 dB)				
(DC to 1500 MHz)	20.0	24.5		dB
(1600 to 1710 MHz)	22.0	25.0		dB
(1710 to 1785 MHz)	10.0	23.5		dB
(1920 to 3120 MHz)	25.0	28.0		dB
(3120 to 4000 MHz)	17.0	30.0	-	dB
Ambient Temperature	-	25	-	°C
System Source and Load Impedance	50			Ohm

MAXIMUM RATINGS

Parameter	Min	Max	Units
Operating Temperature Range	-30	85	°C
Storage Temperature Range	-40	85	°C
Input Power Level	-	+13	dBm
DC voltage		0	V

MATCHING CIRCUIT



Notes:

1. External matching components are not required.

Technical drawing of the 100-pin connector showing top, side, and detail views with dimensions.

Top View Dimensions:

- Overall width: 3.0 ± 0.1
- Overall height: 3.0 ± 0.1
- Pin pitch (center-to-center): 1.5 REF
- Pin width: 0.60 TYP.
- Pin height: 1.60 TYP.
- Pin spacing (edge to center): 0.85 REF TYP.
- Pin width (inner): 1.30 TYP.

Side View Dimensions:

- Overall height: 1.4 MAX
- Pin height: 1.0 MAX
- Pin width: 1.0 MAX

Detail View Dimensions:

- Radius: $R0.15$

NOTE:

Dimensions are in millimeters.

NOTE:
Dimensions shown are all in millimeters.

Diagram of a square chip with pins 1-6. The chip has a date code '2598 YY WW' printed on it. An arrow points to the 'YY' part of the date code, labeled 'DATE CODE (YY = year, WW = week)'. Another arrow points to the bottom of the chip, labeled 'LONG PAD ON BOTTOM (PIN 1)'.

PAD Configuration:	
2	Input
5	Output
1,3,4,6	Ground

**ISO 9001
Registered**

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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