imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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RFM products are now Murata products.

Low-loss UHF SAW Filter

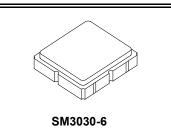
- Surface Mount 3.0 x 3.0 mm Package
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units	
Input Power Level	5	dBm	
DC Voltage on any Non-ground Terminal	3	V	
Operating Temperature Range	-20 to +75	°C	
Storage Temperature Range in Tape and Reel	-40 to +85	°C	
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s		

SF2134E

897.50 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			897.5		MHz
Insertion Loss, 880 to 915 MHz	IL			2.1	3.0	dB
Amplitude Ripple, 880 to 915 MHz				1.0	2.0	dB _{P-P}
Attenuation Referenced to 0 dB						
DC to 860 MHz			17	19		
925 to 935 MHz			5	12.4		dB
935 to 960 MHz			20	24		
980 to 2000 MHz			20	22		
VSWR, 880 to 915 MHz				2:1	2.6:1	
Source Impedance	Z _S			50		Ω
Load Impedance	ZL			50		Ω
Case Style		SM3030-6 3.0 x 3.0 mm Nominal Footprint				

Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	674, YWWS
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel
Reel Size 13 Inch	3000 Pieces/Reel

Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others

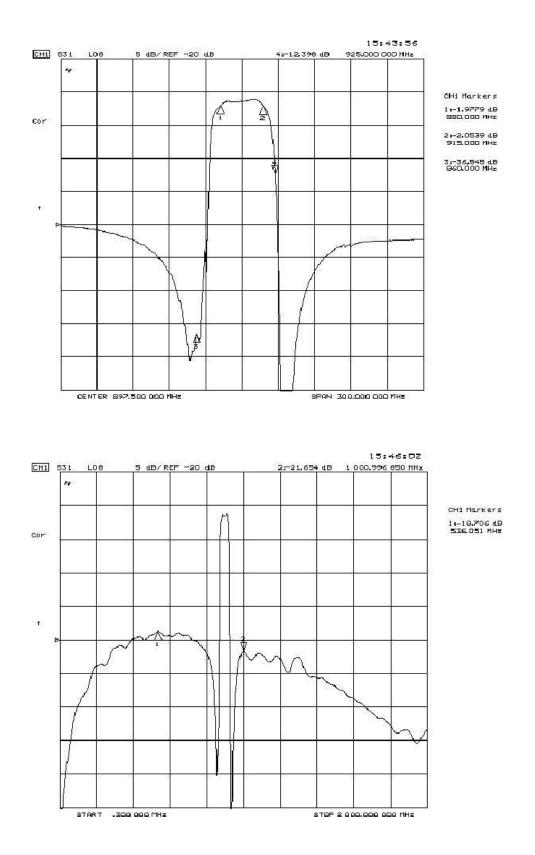


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

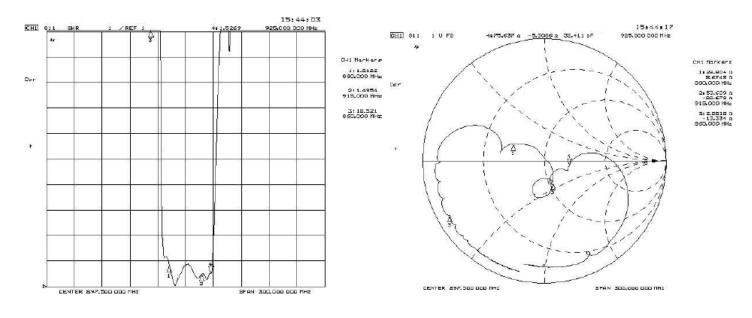
NOTES:

- 1. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance
- 2
- Unless noted otherwise, all specifications apply over the operating temperature range with file soldered to the specified denonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details. 3.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes." The design, manufacturing process, and specifications of this filter are subject to change. 4
- 5.
- 6. Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- 7.
- US and international patients may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd. 8.

Filter Amplitude Response

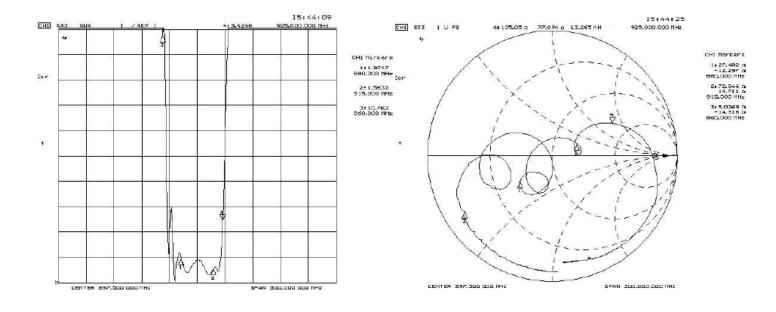


Filter Input and Output Impedance



S11

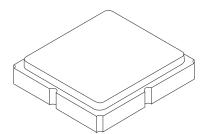
S22

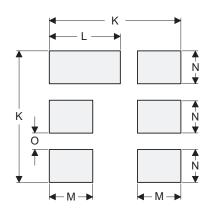


SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

Case and PCB Footprint Dimensions





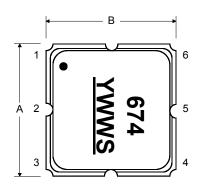
PCB Footprint Top View

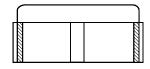
Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.00	3.13	0.113	0.118	0.123
В	2.87	3.00	3.13	0.113	0.118	0.123
С	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
н	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056
K		3.20			0.126	
L		1.70			0.067	
м		1.05			0.041	
N		0.81			0.032	
0		0.38			0.015	

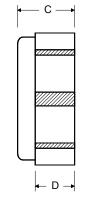
Case Materials

Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

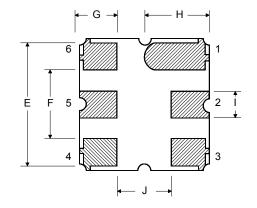
Top View



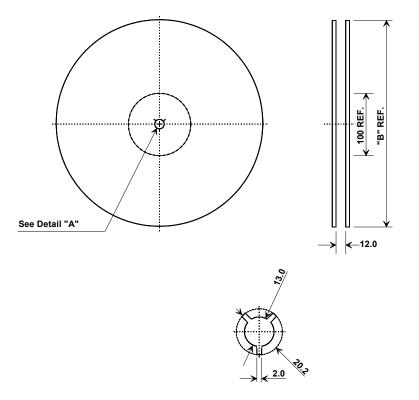




Bottom View



Tape and Reel Specifications



	"B"	Quantity Per Reel
Inches	millimeters	Quantity For Roor
7	178	500
13	330	3000

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions					
Ао	3.35 mm				
Во	3.35 mm				
Ко	1.40 mm				
Pitch	8.0 mm				
W	12.0 mm				

