



SF2442E-1

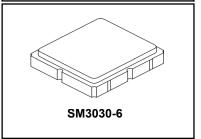
RoHS compliant from the first date of manufacture.

Surface Mount 3.0 x 3.0 mm Package

Absolute Maximum Ratingss

Rating	Value	Units
Input Power Level	15	dBm
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +105	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

1565.5 MHz **SAW Filter**



Electrical Characteristics

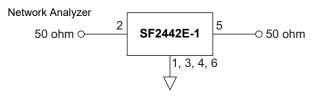
Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C			1565.5		MHz	
3 dB Bandwidth				150		MHz	
Insertion Loss, (1525 to 1606 MHz)	IL			3.1	3.7	dB	
Return Loss, (1525 to 1606 MHz)				10		dB	
Passband Ripple (1525 to 1606 MHz)				0.6	2.0		
Group Delay Variation (1525 to 1606 MHz)				2.0	15.0		
(1525 to 1606 MHz on 2 MHz sliding window)				1.2	15.0	1	
(ref - 1573.374 to 1577.466 MHz)				0.5	5.0	ns	
(ref - 1597.55 to 1605.886 MHz)				1.0	5.0	1	
Attenuation, Referenced from 0 dB:							
100 to 1320 MHz				29			
1320 to 1420 MHz			30	40			
1740 to 2000 MHz			30	40		- dB	
2000 to 4000 MHz				21			
4000 to 6000 MHz				16		1	
Temperature coefficient of frequency				-80		Ppm/°C	
Source Impedance				50			
Load Impedance				50	Ω		
Coop Chile	CM2020 6 2 0 v 2 0 mm Naminal Factorint				·		

SM3030-6 3.0 x 3.0 mm Nominal Footprint Case Style Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator 9F, YWWS

Electrical Connections

Connection	Terminals		
Input	2		
Output	5		
Case Ground	All others		

Measurement Circuit





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to $50~\Omega$ and measured with $50~\Omega$ 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.

 "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes." 3.

- The design, manufacturing process, and specifications of this filter are subject to change.

 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. 6.
- US and international patents may apply.

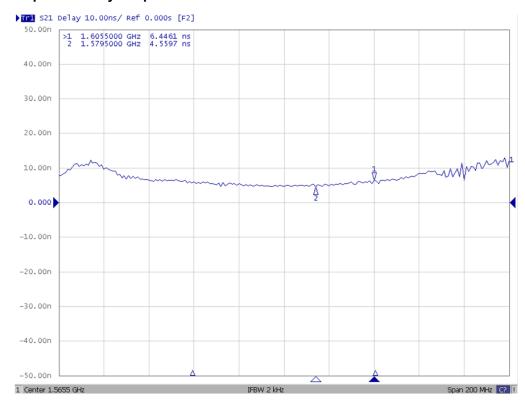
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Frequency Characteristics

Narrow Band Response

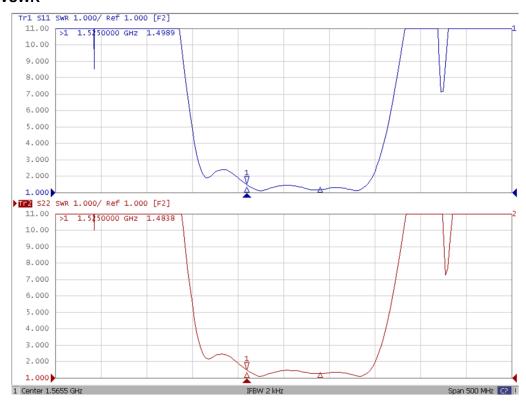


Group Time Delay Response



Frequency Characteristics

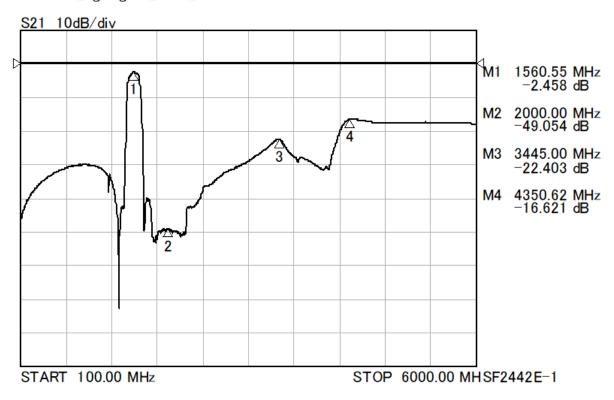
VSWR

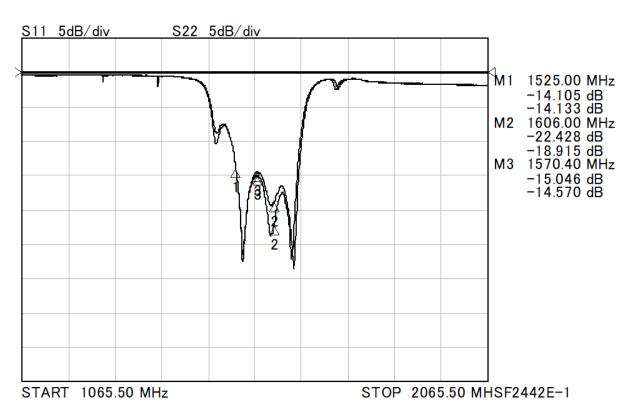


Wide Band Response



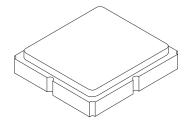
Format: LogMag REF: 0dB

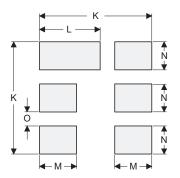




SM3030-6 Case

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





PCB Footprint Top View

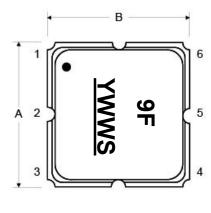
Case and PCB Footprint Dimensions

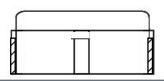
Dimension	mm			Inches			
Difficusion	Min	Nom	Max	Min	Nom	Max	
Α	2.87	3.00	3.13	0.113	0.118	0.123	
В	2.87	3.00	3.13	0.113	0.118	0.123	
С	1.12	1.25	1.38	0.044	0.049	0.054	
D	0.77	0.90	1.03	0.030	0.035	0.040	
E	2.67	2.80	2.93	0.105	0.110	0.115	
F	1.47	1.60	1.73	0.058	0.063	0.068	
G	0.72	0.85	0.98	0.028	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		
Р	0.15	0.30	0.45	0.005	0.011	0.017	
Q	0.07	0.20	0.36	0.002	0.007	0.014	
R	0.62	0.7	0.78	0.024	0.027	0.030	

Case Materials

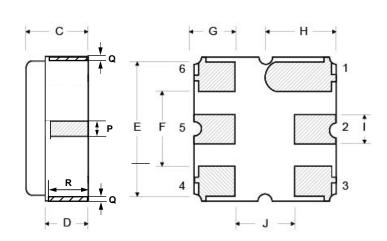
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW

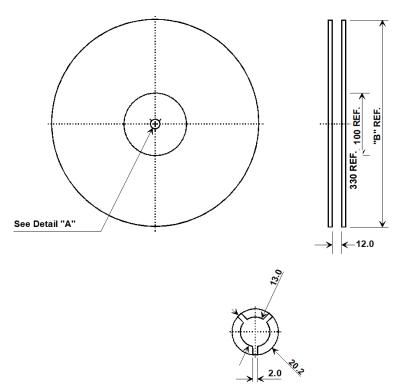




BOTTOM VIEW

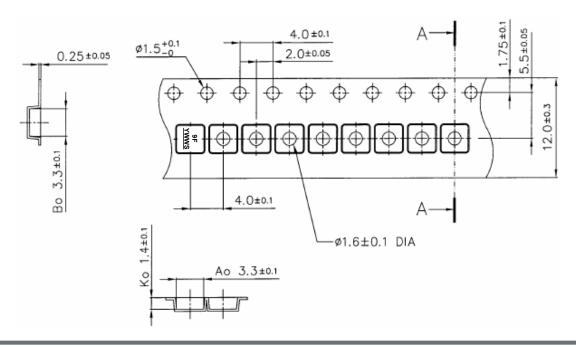


Tape and Reel Specifications



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions					
Ao	3.3 mm				
Во	3.3 mm				
Ко	1.4 mm				
Pitch	4.0 mm				
W	12.0 mm				



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