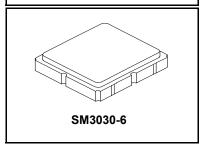




RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first date of manufacture

SF2419E

495 MHz **SAW Filter**



Surface Mount 3.0 x 3.0 mm Package

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

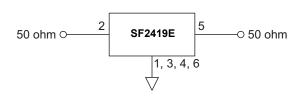
Electrical Characteristics

Sym	Notes	Min	Тур	Max	Units	
f _C			495		MHz	
IL			1.9	3.5	dB	
			0.6	1.5	dB	
			1.3	2.3		
		50	58		dB	
		43	49.5		ub ub	
			-36		ppm/°C	
SM3030-6 3.0 x 3.0 mm Nominal Footprint						
7Z, <u>YWWS</u>						
500 Pieces/Reel						
	f _C	f _C	50 43 SM3030-6 3.0 x 3.0 7Z,	f _C 495 IL 1.9 0.6 1.3 50 58 43 49.5 -36 SM3030-6 3.0 x 3.0 mm Nominal 7Z, YWWS	f _C 495 IL 1.9 3.5 0.6 1.5 1.3 2.3 50 58 43 49.5 -36 SM3030-6 3.0 x 3.0 mm Nominal Footprint 7Z, YWWS	

Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others

Reel Size 13 Inch



3000 Pieces/Reel

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 Ω and measured with 50 Ω network analyzer. 1. 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."

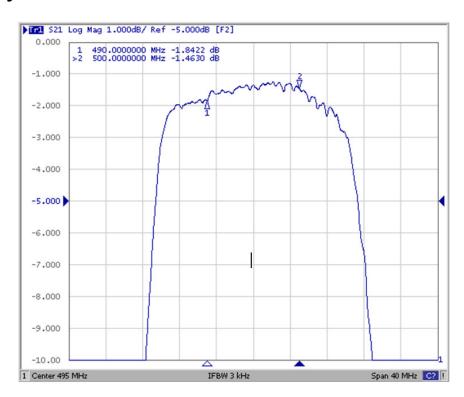
The design, manufacturing process, and specifications of this filter are subject to change.

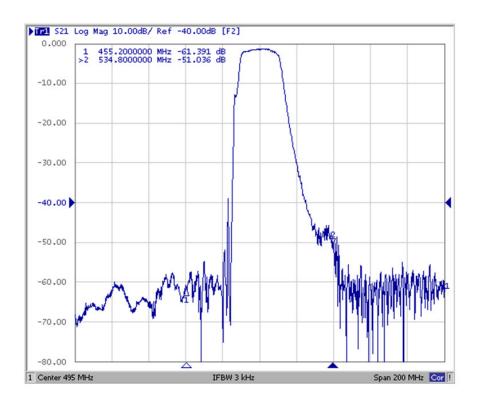
Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design. 5. 6.

US and international patents may apply.

Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

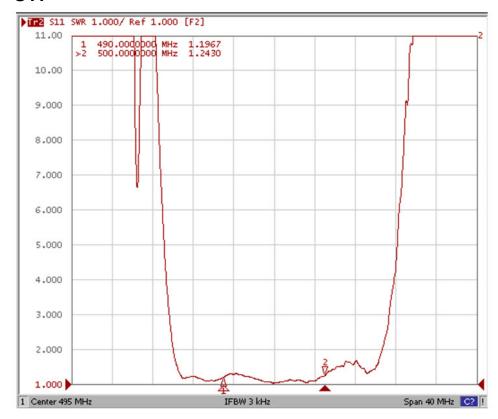
Frequency Characteristics:



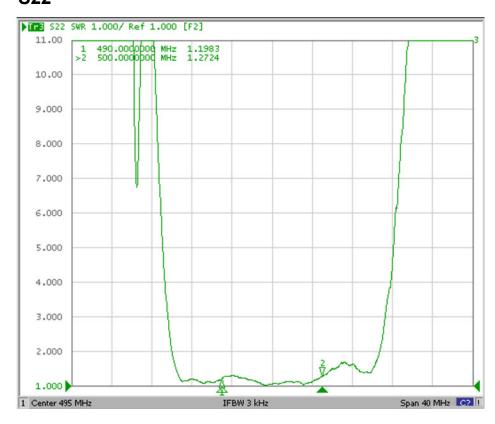


Reflection Functions:

S11

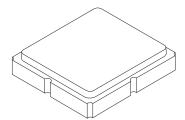


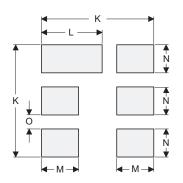
S22



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			
Dilliension	Min	Nom	Max	Min	Nom	Max	
Α	2.99	3.00	3.01	0.117	0.118	0.118	
В	2.99	3.00	3.01	0.117	0.118	0.118	
С	-	-	1.40	-	-	0.055	
D	-	1	1.00	1	-	0.039	
E	-	2.80	-	-	0.110	-	
F	-	1.60	-	-	0.063	-	
G	-	0.85	-	-	0.033	-	
Н	-	1.50	-	-	0.059	-	
I	-	0.60	-	-	0.024	-	
J	-	1.30	-	-	0.051	-	
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

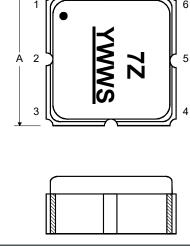
- C

← D →

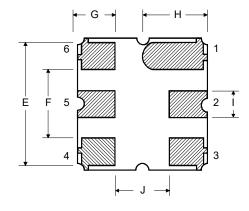
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



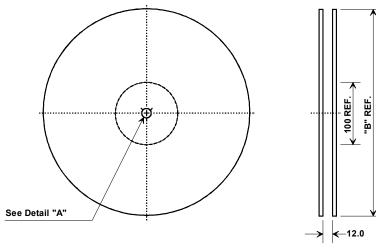
- B -



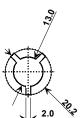
BOTTOM VIEW



Tape and Reel Specifications

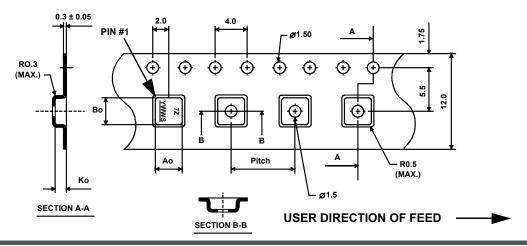


"B"		Quantity Per Reel	
Inches	millimeters	4	
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Murata: SF2419E