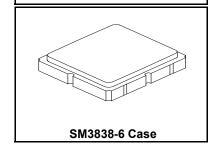


RoHS Compliance This component is compliant with RoHS directive. This component was always

RoHS compliant from the first date of manufacture.

345.00 MHz **SAW Filter**



RF1353D

Absolute Maximum Ratings

Direct Match to 50 ohms

 Designed for 345 MHz Low-power Wireless Applications Advanced LiTaO₃ Design for Low Insertion Loss

· Hermetically-sealed Surface Mount package

Rating	Value	Units
Maximum Input Power	+10	dBm
DC Voltage between Terminals	30	VDC
Case Temperature	-40 to +85	°C

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Operating Frequency	f _C			345		MHz
Passband Insertion Loss	IL				4.5	dB
3.0 dB Bandwidth			f _C ±70	f _C ±430	f _C ±1100	kHz
Rejection:						
f _C -10.7 MHz			15			dB
f _C -21.4 MHz			40			•
Direct Input/Output Match:				50		Ω
Operating Temperature Range			-10		70	°C
Case			SM3838-6, 3.8 x 3.8 mm Footprint			
Lid Symbolization (YY=Year, WW=week, S=shift)				444/ <u>YWWS</u>		

Electrical Connections

Connection	Terminals
RF Input	2
RFOutput	5
Case Ground	All Others

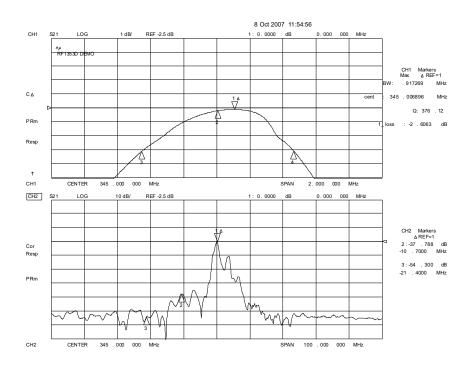
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

- All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise. Ultimate rejection is dependent on PCB layout. Specifications subject to change without notice. Electrostatic Sensitive Device. Observe precautions for handling. 1. 2. 3. 4. 5. 6.

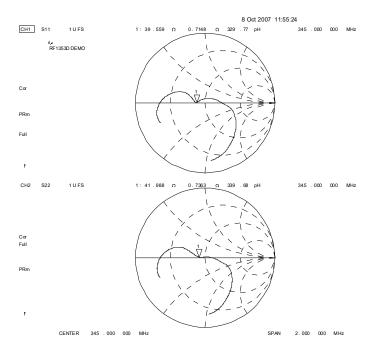
- US and international patents may apply.

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

Filter Amplitude Response

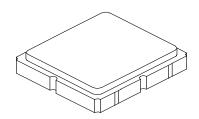


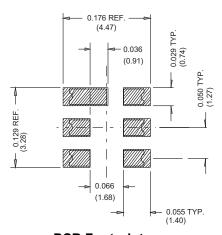
Filter Input/Output Impedance Plots



SM3838-6 Case

6-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint





Case Dimensions

Dimension	mm			Inches		
Difficusion	Min	Nom	Max	Min	Nom	Max
Α	3.60	3.80	4.00	0.142	0.150	0.157
В	3.60	3.80	4.00	0.142	0.150	0.157
С	1.10	1.30	1.50	0.043	0.050	0.060
D	0.95	1.10	1.25	0.037	0.043	0.049
E	2.39	2.54	2.69	0.094	0.100	0.106
G	0.90	1.00	1.10	0.035	0.040	0.043
Н	1.90	2.00	2.10	0.748	0.079	0.083
I	0.50	0.60	0.70	0.020	0.024	0.028
J	1.70	1.80	1.90	0.067	0.071	0.075

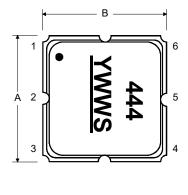
Case Material

← 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			

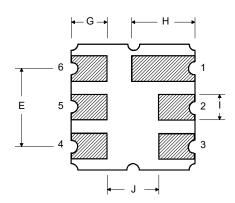
PCB Footprint

TOP VIEW

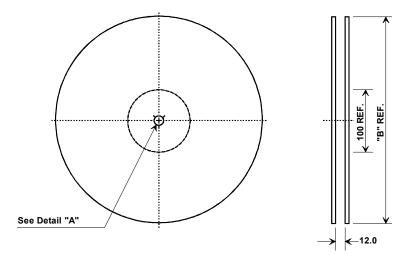




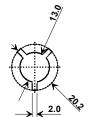
BOTTOM VIEW



Tape and Reel Specifications



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



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	4.25 mm
Во	4.25 mm
Ko	1.30 mm
Pitch	8.0 mm
W	12.0 mm

