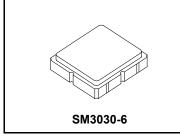


RFM products are now Murata products.

SF2365E

1575.42/2326.25 MHz SAW Filter



Absolute Maximum Ratings

RoHS Compatible

Rating	Value	Units
Source Power	10	dBm
DC voltage	6	VDC
Storage Temperature Range	-45 to +125	°C
Operating Temperature Range	-45 to +125	°C

Low loss Diplexer for GPS and SDARS (Sirius) Applications

No Matching Network Required for Operation at 50 Ω

3.0 x 3.0 x 1.3 mm Surface-Mount Case

Characteristics - GPS Output	Sym	Notes	Min	Typ @25°C	Max	Units
Center Frequency	f _C			1575.42		MHz
Maximum Insertion Attenuation 1574.397 to 1576.443 MHz				1.2	2.4	dB
Amplitude Ripple 1574.397 to 1576.443 MHz				0.2	1.5	dB
Attenuation						
10.00 to 1500.00 MHz			31	36		
1500.00 to 1525.42 MHz			18	32		dB
1610.00 to 1625.00 MHz			18	30		ub ub
1625.42 to 2000.00 MHz			35	42		
2000.00 to 3000.00 MHz			24	31		
Input VSWR 1574.397 to 1576.443 MHz				1.4	2.0	
Output VSWR 1574.397 to 1576.443 MHz				1.3	2.0	

Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms			
Case Style	SM3030-6 3 x 3 mm Nominal Footprint			
Lid Symbolization (YY=year, WW=week, S=shift)	5P YWWS			

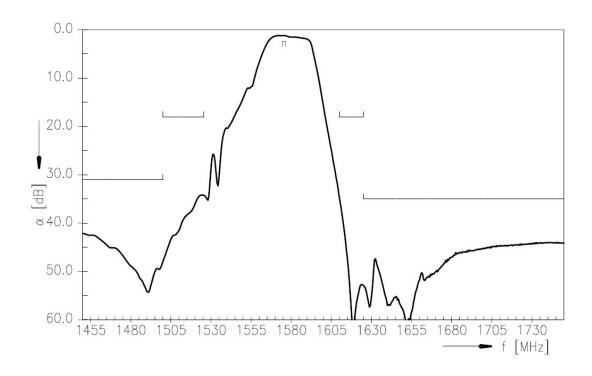
Characteristics - SDARS Output	Sym	Notes	Min	Typ @25°C	Max	Units
Center Frequency	f _C			2326.25	•	MHz
Maximum Insertion Attenuation 2320.00 to 2332.50 MHz				1.4	2.0	dB
Amplitude Ripple 2320.00 to 2332.50 MHz				0.4	1.1	dB
Attenuation						
10.00 to 2100.00 MHz			20	24		dB
2100.00 to 2200.00 MHz			17	22] ub
2420.00 to 3000.00 MHz			25	31		
Input VSWR 12320.00 to 2332.50 MHz				1.6	2.0	
Output VSWR 2320.00 to 2332.50 MHz				1.6	2.0	
Isolation between GPS and SDARS path						
15794.397 to 1576.443 MHZ			25	30		dB
2320.00 to 2332.50 MHz			23	28		

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

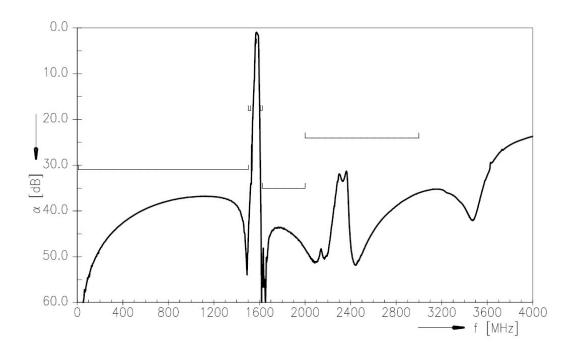
NOTES:

- 1. US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

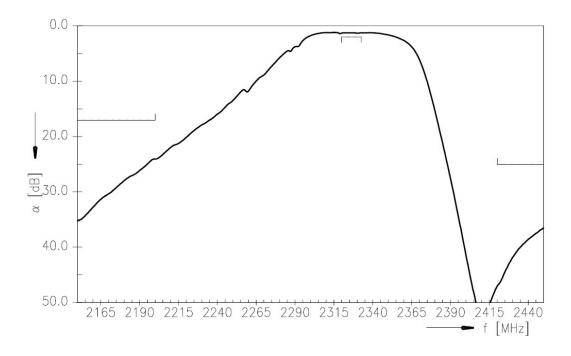
Frequency Characteristics GPS Transfer Function



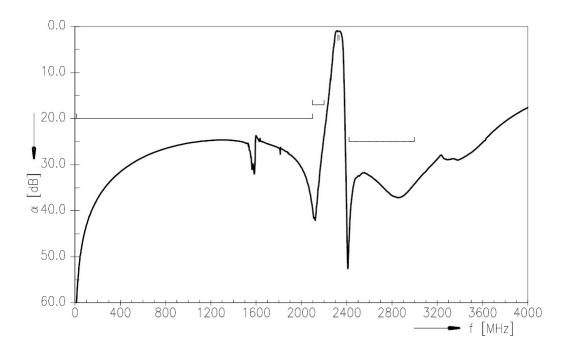
GPS Transfer Function - Wideband



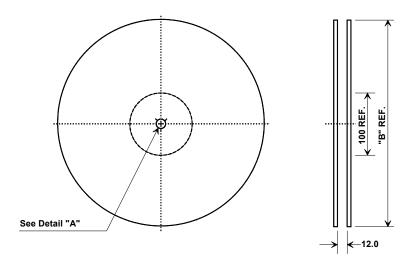
SDARS Transfer Function



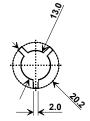
SDARS Transfer Function - Wideband



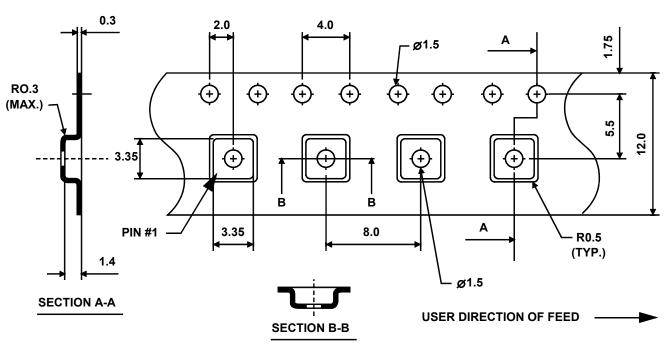
Tape and Reel Specifications



	B " nal Size	Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



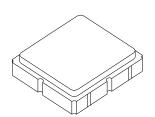
COMPONENT ORIENTATION



SM3030-6 Case

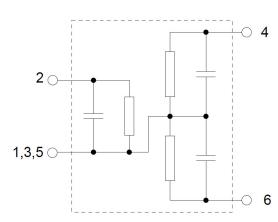
6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

Case Dimensions



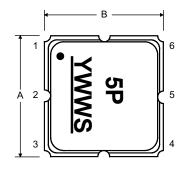
Dimension	mm					
Dimension	Min	Nom	Max	Min	Nom	Max
Α		3.0			0.118	
В		3.0			0.118	
С		1.3			0.051	
D		0.9			0.035	
E		2.54			0.100	
F		1.6			0.063	
G		0.85			0.033	
Н		1.5			0.059	
I		0.6			0.024	
J		1.3			0.051	

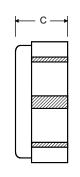
Electrical Connections



Connection	Terminals
GPS Input	4
SDARS Input	6
Output	2
Ground	1, 3, 5

TOP VIEW





BOTTOM VIEW

