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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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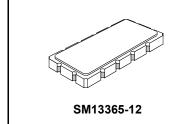




RFM products are now Murata products.

PX1002

86.85 MHz **SAW Filter**



Designed for TDMA IS-54 Receiver IF Applications

- · Low Insertion Loss
- · Excellent Selectivity
- Hermetic 13.3 X 6.5 mm Surface-mount Case
- Unbalanced Input and Output
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any 2 terminals	2 terminals 30 VDC	
Storage Temperature Range	-40 to +85 °C	
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	4	86.850			MHz
Passband Insertion Loss at fc		IL	1		3	4.0	dB
	3 dB Passband	BW ₃		±12	±25		kHz
	Amplitude Ripple over fc ±15 kHz		1 2			1.0	dB _{P-P}
	Group Delay Variation over fc ±10 kHz	GDV	1, 2			6.0	µs _{P-P}
Third-Order Intermod. for -20 dBm tones at fc ±60 & 120 kHz						-95	dBm
Rejection	fc ±60 kHz			11	16		
	fc -880 kHz to fc -940 kHz		1, 2, 3	65			dB
	Ultimate				65		
Operating Temperature Range		T _A	1	-20		+70	°C

Impedance Matching to 50 Ω unbalanced	External L-C	
Case Style	SM13365-12 13.3 X 6.5 mm Nominal Footprint	
Lid Symbolization (YY=year, WW=week) See note 4	RFM PX1002 YYWW	
Standard 7" Reel Quantity	500 units	
Standard 13" Reel Quantity	1000 units	

Electrical Connections

Connection	Terminals
Port 1Hot	2
Port 1 Gnd Return	3
Port 2 Hot	8
Port 2 Gnd Return	9
Case Ground	All Others

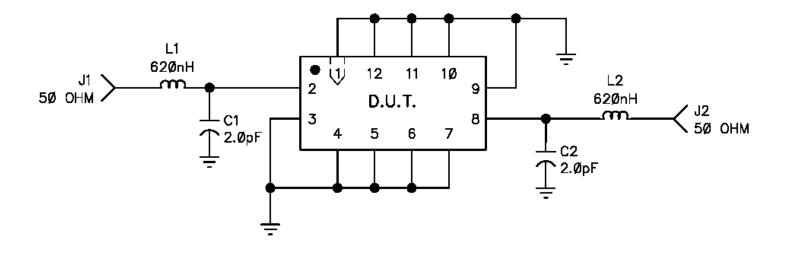
Caution: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

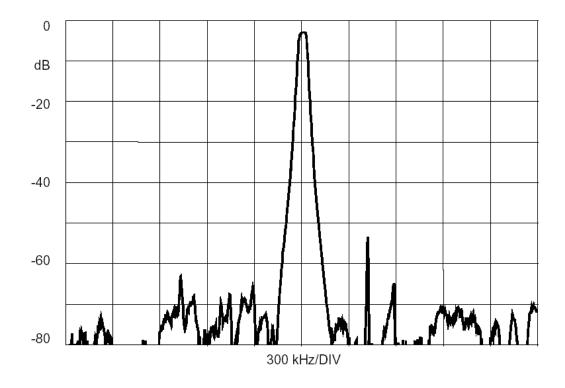
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network
- analyzer. Unless noted otherwise, all frequency specifications are referenced to the
- nominal 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.

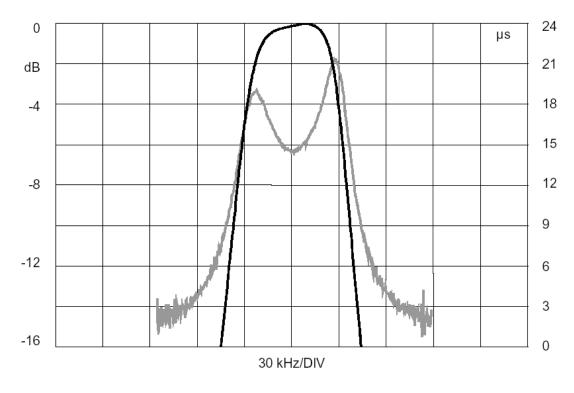
 Either Port 1 or Port 2 may be used for either input or output in the design.

 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.
 US and international patents may apply.
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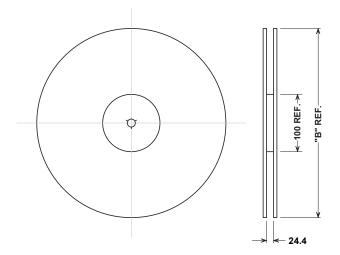
SCHEMATIC, PX1ØØ2 (DEMO)



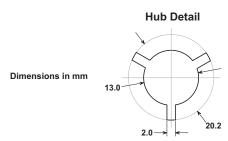




Tape and Reel Specifications

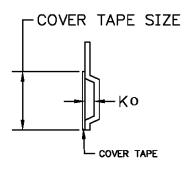


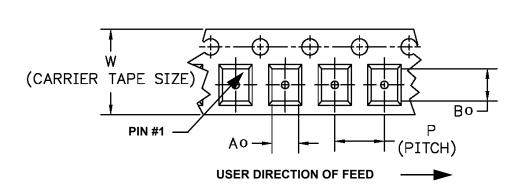
•	'B"	Quantity Per Reel		
Inches	millimeters	Quantity Fer Reer		
7	178	500		
13	330	3000		



COMPONENT ORIENTATION and DIMENSIONS

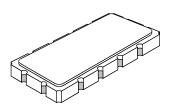
Carrier Tape Dimensions		
Ao	7.0 mm	
Во	13.8 mm	
Ko	2.0 mm	
Pitch	12.0 mm	
W	24.0 mm	





SM13365-12 Case

12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint



Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	13.08	13.31	13.60	0.515	0.524	0.535
В	6.27	6.50	6.80	0.247	0.256	0.268
С		1.91	2.00		0.075	0.079
D		1.50			0.059	
E		0.79			0.031	
Н		1.0			0.039	
Р		2.54			0.100	

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		

