



- Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- Differential Input and Output
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

Absolute Maximum Ratings

Rating	Value	Units	
Maximum Incident Power in Passband	+10	dBm	
Max. DC voltage between any 2 terminals	30	VDC	
Storage Temperature Range	-40 to +105	°C	
Max Soldering Profile	265°C for 10 s		



SF1140B-2

75.00 MHz SAW Filter



Electrical Characteristics

	fo				Max	Units
	t _C			75.000		MHz
ion Loss at fc	IL	1 [11.0	13.0	dB
dB Passband	BW ₁		±2.1	±2.7		MHz
Fast Amplitude Ripple over fc ±2.1 MHz		1 [1.0	dB _{P-P}
r fc ±2.1 MHz	GDV	1 [40	200	ns _{P-P}
FC+65 MHz			40	43		dB
to fc+15 MHz		1 [36			
Operating Temperature Range			-40		+105	°C
	250 ohms					
Case Style			SMF	P-03 7 x 5 mm l	Nominal Footp	print
Lid Symbolization (YY=year, WW=week, S=shift, ## = Sequence Code)				RFM, SF1140	B-2, <u>YYWWS</u>	\$ <u>##</u>
	dB Passband r fc ±2.1 MHz r fc ±2.1 MHz o FC+65 MHz to fc+15 MHz	dB Passband BW1 r fc ±2.1 MHz rfc ±2.1 MHz r fc ±2.1 MHz GDV o FC+65 MHz TA T fc ±2.1 MHz TA	dB Passband BW1 r fc ±2.1 MHz GDV r fc ±2.1 MHz GDV o FC+65 MHz T to fc+15 MHz T	dB Passband BW1 ±2.1 r fc ±2.1 MHz rfc ±2.1 MHz 40 o FC+65 MHz 40 36 TA -40 25 SMF SMF 5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

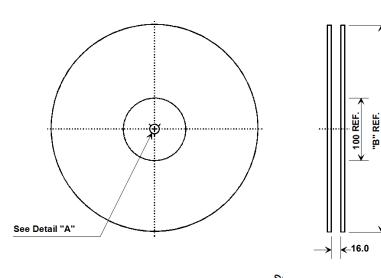
Electrical Connections

Connection	Terminals
Port 1 Hot	10
Port 1 Ground Return	1
Port 2 Hot	5
Port 2 Ground Return	6
Case Ground	All Others



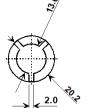
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

Tape and Reel Specifications



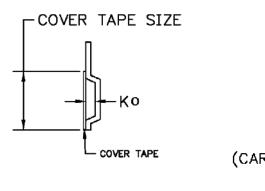
Tape and Reel Standard per ANSI/EIA-481

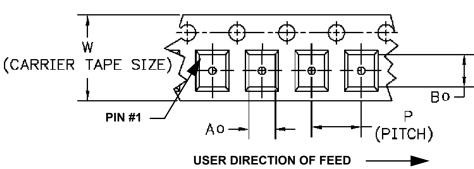
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



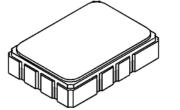
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ао	5.5 mm			
Во	7.5 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	16.0 mm			





10-Terminal Ceramic Surface-Mount Case 7 x 5 mm Nominal Footprint

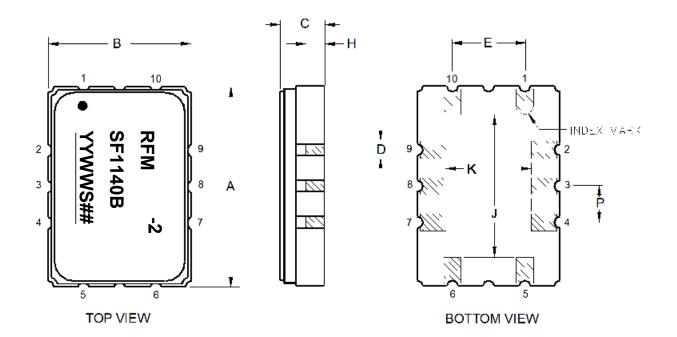


Case Dimensions

Dimension		mm	mm In		Inches	nches	
Dimension	Min	Nom	Max	Min	Nom	Max	
A	6.80	7.00	7.20	0.268	0.276	0.283	
В	4.80	5.00	5.20	0.189	0.197	0.205	
С		1.65	2.00		0.065	0.079	
D		0.60			0.024		
E		2.54			0.100		
н		1.0			0.039		
J		5.00			0.197		
К		3.00			0.118		
Р		1.27			0.050		

Electrical Connections

	Connection	Terminals
Port 1	Input or Return	10
	Return or Input	1
Port 2	Output or Return	5
	Return or Output	6
	Ground	All others
Single Ended Operation		Return is ground
Differential Operation		Return is hot



Recommended Reflow Profile

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
- 4. Time: 5 times maximum.

