

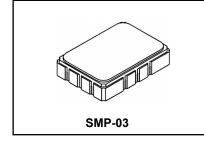
AEC-Q200 This component was always RoHS compliant from the first date of manufacture.

RoHS

Compliant

SF1140B-2

75.00 MHz SAW Filter



Designed for SDARS IF Receiver

Low Insertion Loss

• 5.0 X 7.0 mm Surface-Mount Case

• Differential Input and Output

• Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Absolute maximum Natings					
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	265°C for 10 s			

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C		75.000			MHz
Passband	Insertion Loss at fc	IL			11.0	13.0	dB
	1dB Passband	BW ₁		±2.1	±2.7		MHz
	Fast Amplitude Ripple over fc ±2.1 MHz					1.0	dB _{P-P}
	Group Delay Variation over fc ±2.1 MHz	GDV	1		40	200	ns _{P-P}
Rejection	fc-15 to fc-7.15 and FC+15 to FC+65 MHz			40	43		dB
	fc+7.15 to fc+15 MHz			36			_
Operating Tempera	ature Range	T _A	T _A -40 +105 °C			°C	
Differential Input a	nd Output Impedance	250 ohms		•			
Case Style			SMP-03 7 x 5 mm Nominal Footprint				orint
Lid Symbolization (YY=year, WW=week, S=shift)			1	RFM, SF1140B-2, YYWWS			

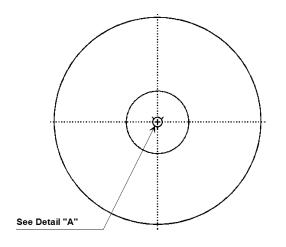
Electrical Connections

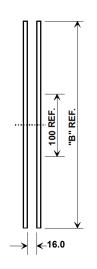
Connection	Terminals
Port 1 Hot	10
Port 1 Ground Return	1
Port 2 Hot	5
Port 2 Ground Return	6
Case Ground	All Others

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

- 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.

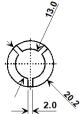
Tape and Reel Specifications



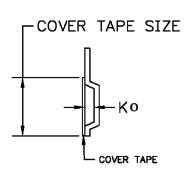


Tape and Reel Standard per ANSI/EIA-481

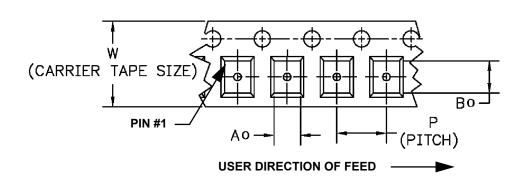
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



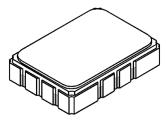
COMPONENT ORIENTATION and DIMENSIONS



Carrier Tape Dimensions				
Ao	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

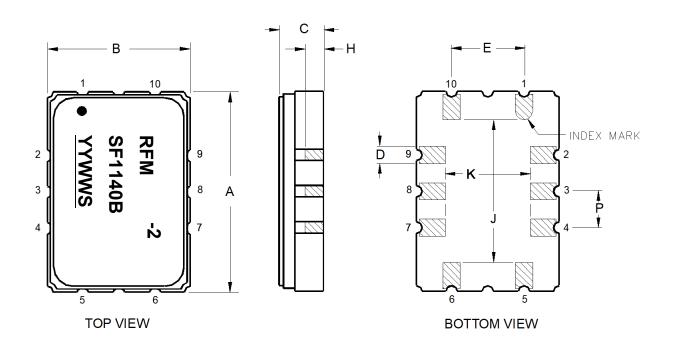


Case Dimensions

Dimension		mm			Inches	
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	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	
K		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
Differe	ntial 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.

