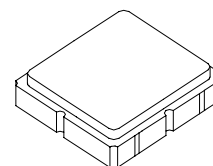




- Low Insertion Loss
- 3.8 X 3.8 X 1.2 mm Surface-Mount Case
- Differential 750 Ohm IN and 900 Ohm OUT
- Complies with Directive 2002/95/EC (RoHS)

**SF2109D****305.00 MHz
SAW Filter****Absolute Maximum Ratings**

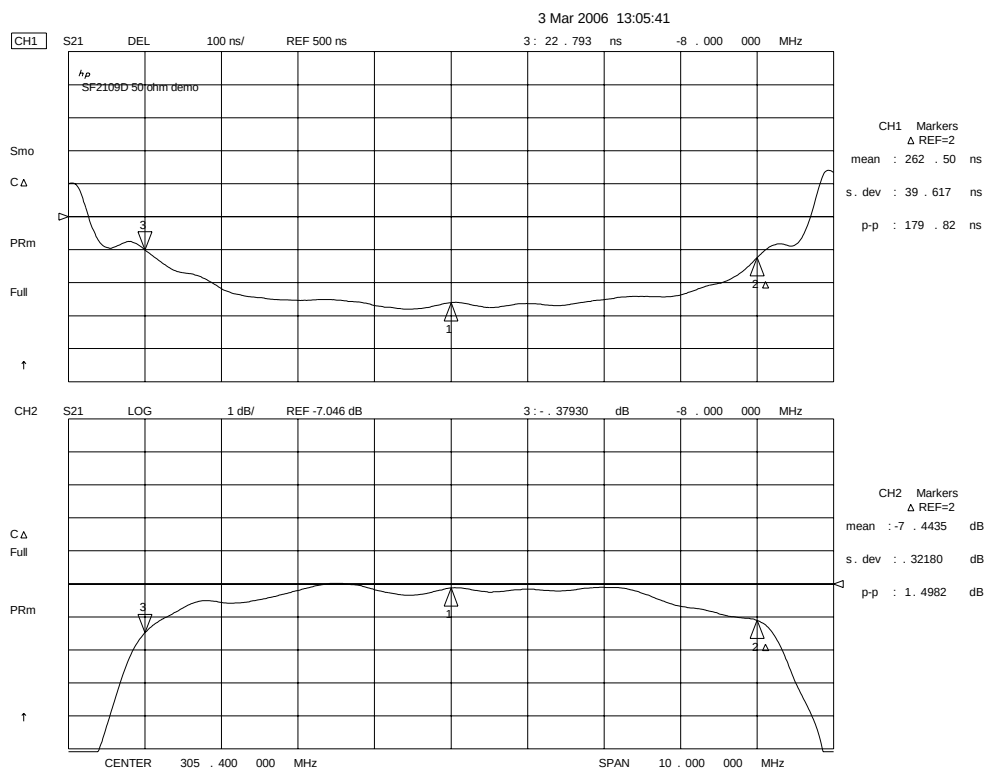
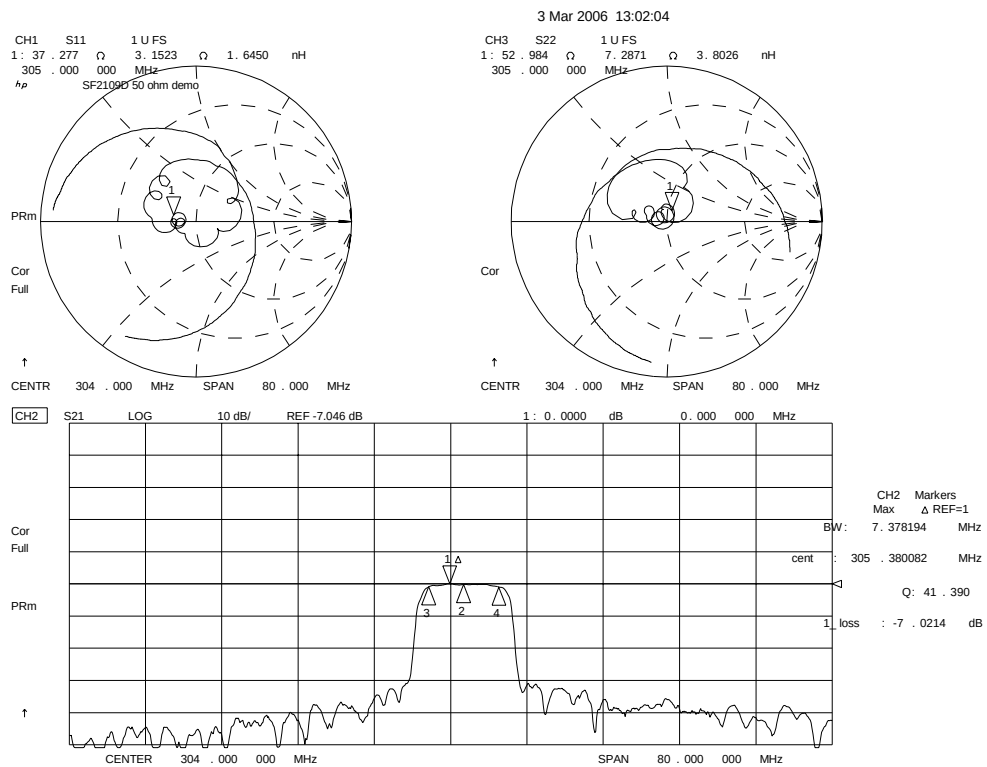
Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Operating Temperature	-15 to +85	°C
Suitable for lead-free soldering - Max Soldering Profile	260°C for 30 s	

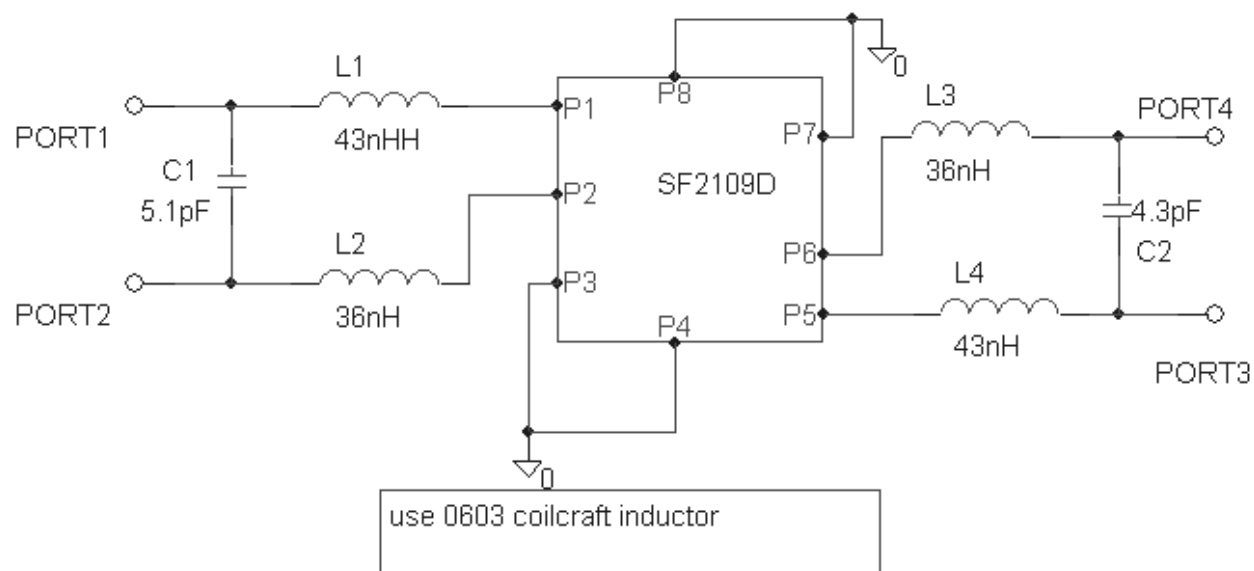
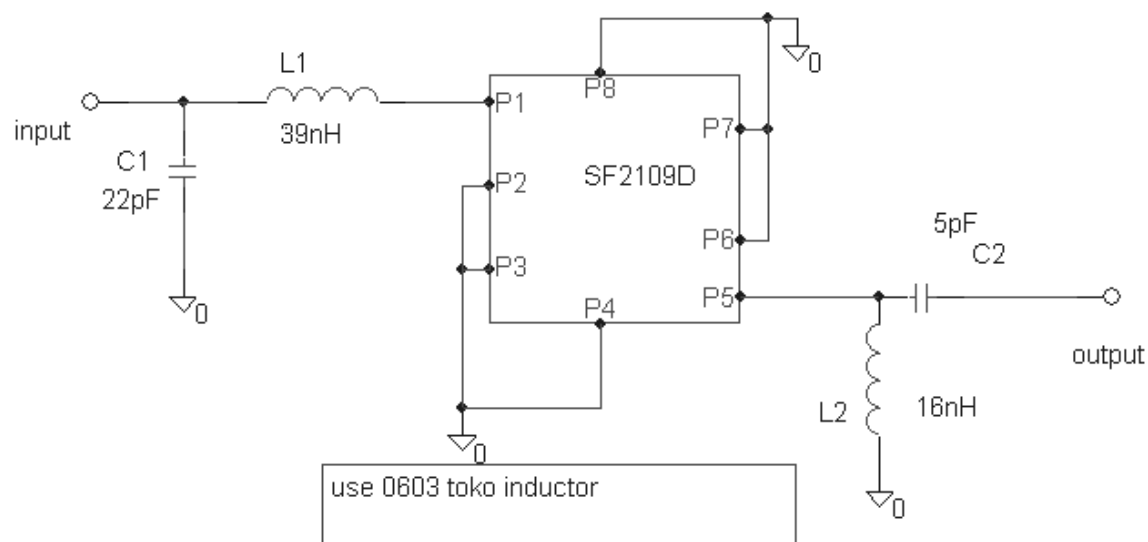
**SM3838-8****Electrical Characteristics**

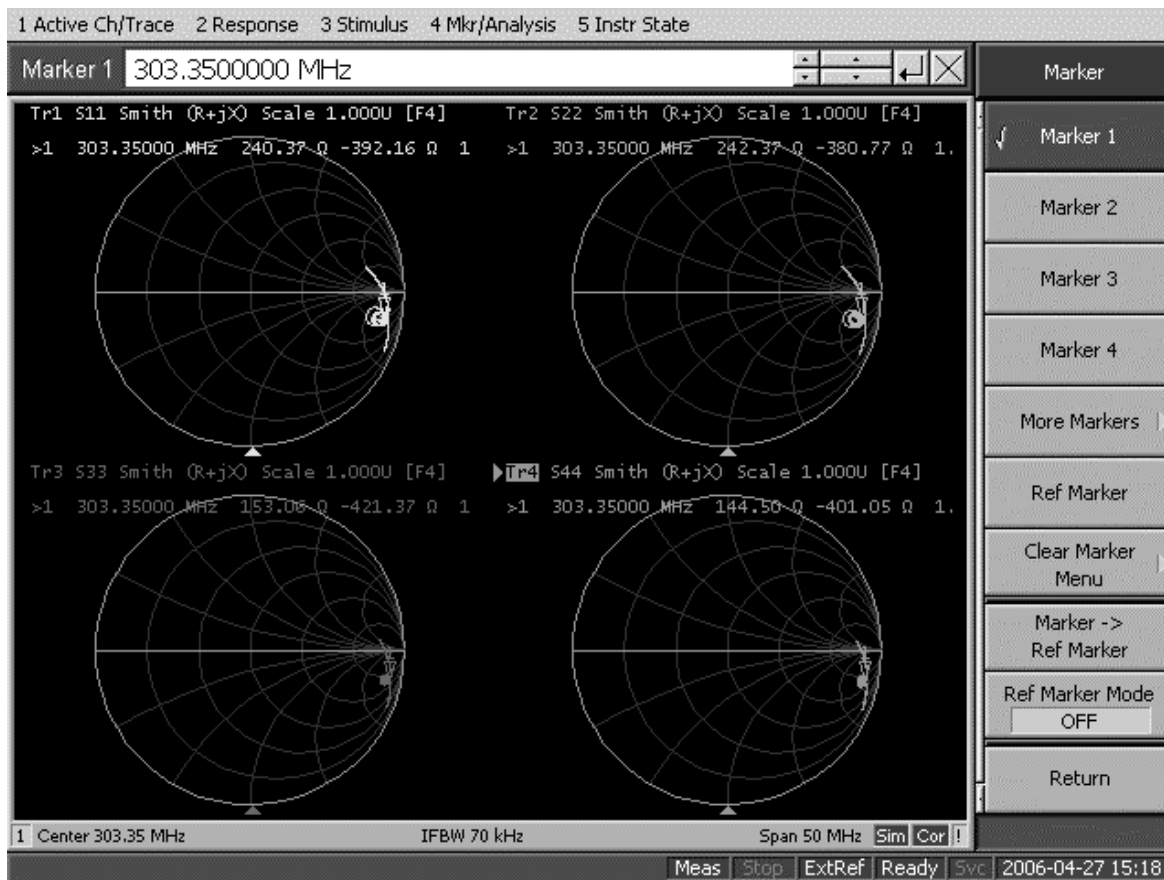
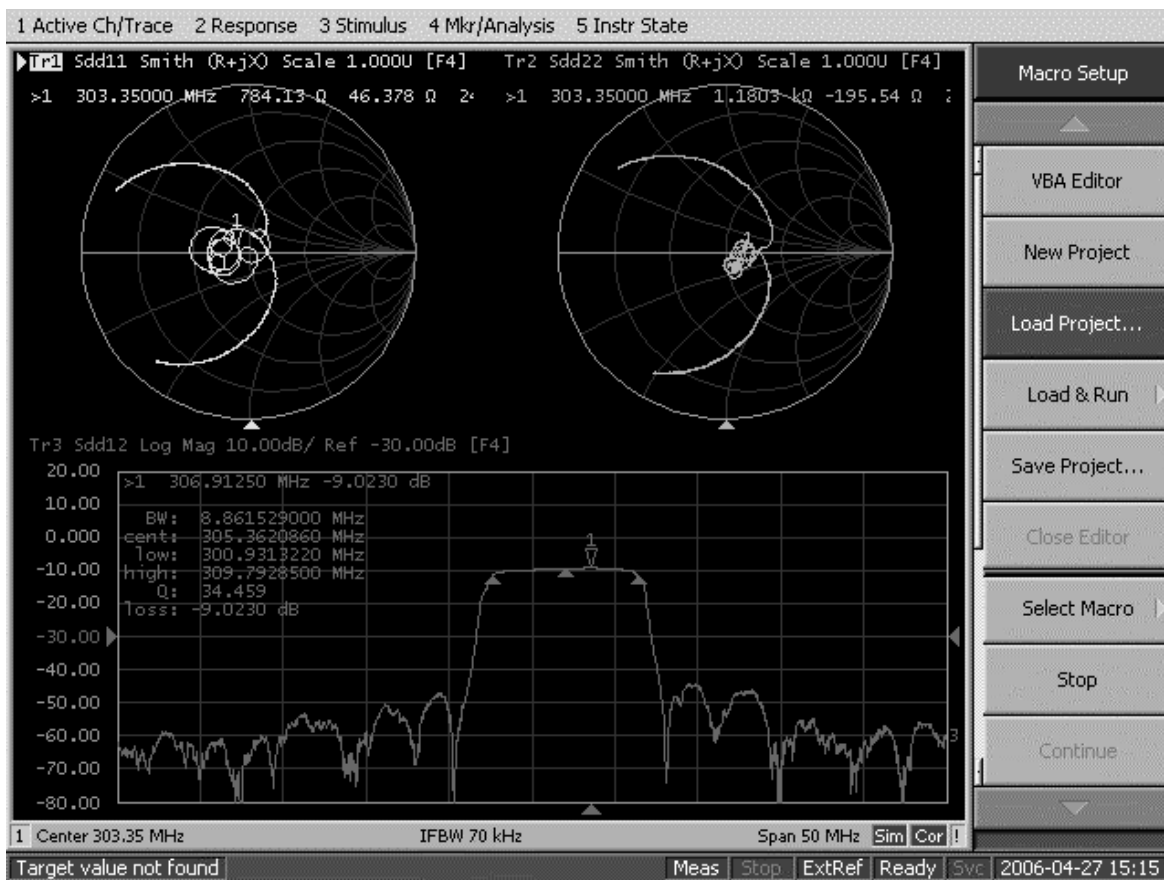
Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f _C	1		305		MHz
Insertion Loss	IL			7	10	dB
Amplitude Ripple (p-p)	fc-4.0 to fc+4.0 MHz	1, 2		1.2	2.0	dB
Low Side Attenuation (fc-9.28 MHz)			30	35		dB
Low Side Attenuation (fc-5.78 MHz)			25	35		
High Side Attenuation (fc+5.78 MHz)			20	26		
High Side Attenuation (fc+9.28 MHz)			30	35		
Delay Ripple (p-p)	fc-4.0 to fc+4.0 MHz	1, 2, 3			300	ns
Group Delay in Passband					500	
Case Style		6	SM3838-8 3.8 x 3.8 mm Nominal Footprint			
Lid Symbolization (Y=year, WW=week, S=shift) See note 4			607 YWWS			

**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.****Notes:**

1. 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.
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, f_C .
3. 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.
4. The design, manufacturing process, and specifications of this filter are subject to change.
5. Tape and Reel Standard Per ANSI / EIA 481.
6. US and international patents may apply.
7. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
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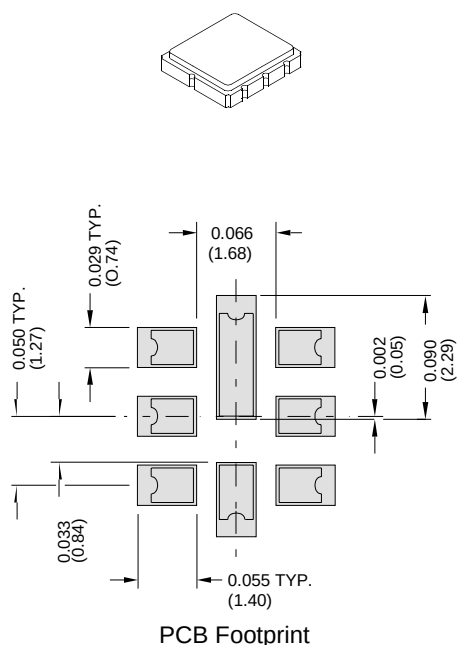




SM3838-8 Case

8-Terminal Ceramic Surface-Mount Case

3.8 X 3.8 mm Nominal Footprint



PCB Footprint

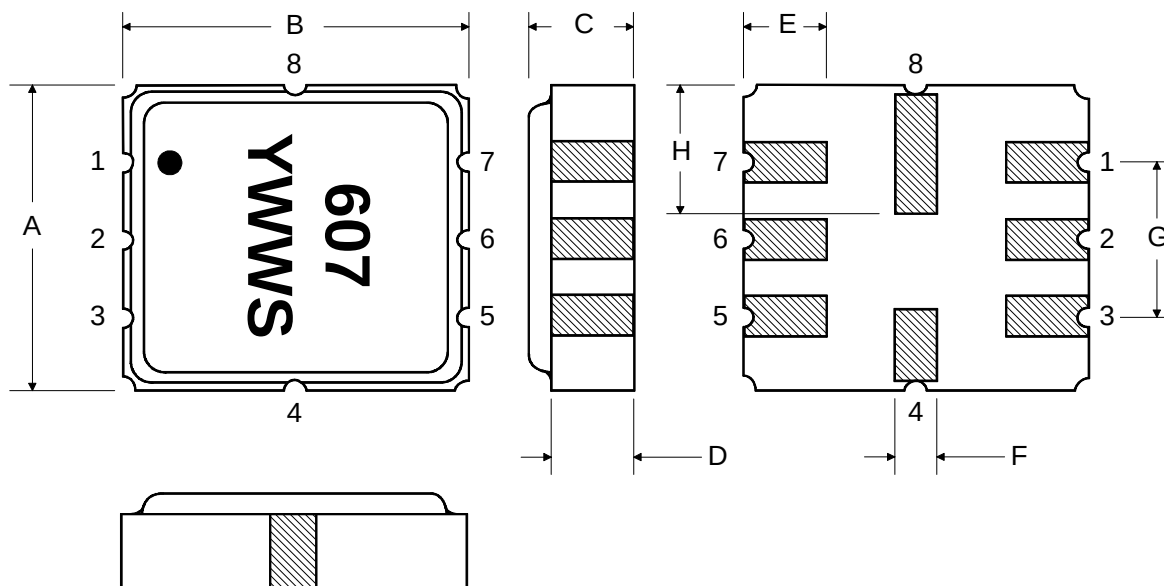
Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	3.6	3.8	4.0	0.142	0.150	0.157
B	3.6	3.8	4.0	0.142	0.150	0.157
C	1.05	1.20	1.35	0.041	0.047	0.053
D	0.95	1.10	1.25	0.037	0.043	0.049
E	0.90	1.00	1.10	0.035	0.040	0.043
F	0.50	0.60	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69	0.090	0.100	0.110
H	1.40	1.75	2.05	0.055	0.069	0.080

Electrical Connections		
	Connection	Terminals
Port 1	Differential Input	1, 2
Port 2	Differential Output	5, 6
	Ground	All Others
Single Ended Operation		Return is Ground
Differential Operation		Return is Hot
Dot Indicates Pin 1		

Materials	
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

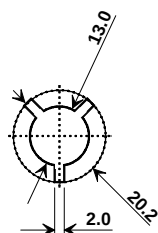
TOP VIEW

BOTTOM VIEW

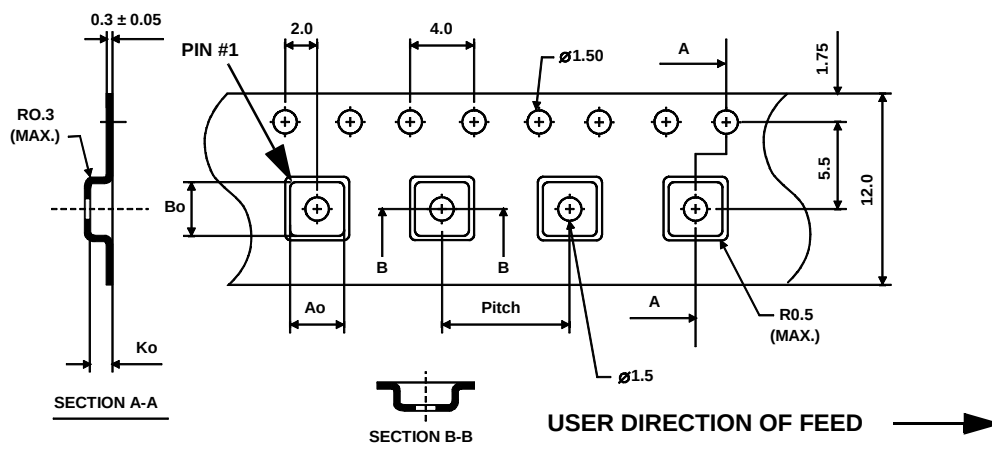


Technical drawing showing a circular detail with a central hole. The drawing includes a top view (left) and a side view (right). The top view shows a large circle with a smaller concentric circle in the center. A vertical dashed line passes through the center. A horizontal dashed line also passes through the center. A small circle with a cross inside is located at the center of the large circle. A leader line points from the text "See Detail 'A'" to this small circle. The side view shows two vertical lines representing the thickness of the detail. A dimension line indicates a distance of 100 REF. from the center of the top view to the center of the side view. Another dimension line indicates a distance of "B" REF. from the center of the side view to the right edge. A dimension line at the bottom indicates a distance of 12.0 from the center of the side view to the right edge.

“B “		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



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





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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