ABSTS5A2-22NM024M

Request Samples (>)



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1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

Features

- Low Insertion Loss
- Usable bandwidth of 52MHz
- Compact Package Size

Applications

- RF Filter for front end GPS L2 band applications
- Navigational and Positioning applications
- GPS Receivers.

Electrical Specifications

	Dawar	2.04.0.00	Specifications					
Parameters				Тур	Max			
Nominal Center Frequency (Fc) (MHz)				1223				
Insertion Loss (dB)		At -40° C to $+85^{\circ}$ C		1.8	2.6			
(1197 ~ 1249 MHz)		At -40°C to +105°C		1.8	2.8			
		1197 ~ 1217 MHz		5.0	7			
Group Delay ripple (nsec)		1217 ~ 1237 MHz		4.5	7			
		1242 ~ 1249 MHz		3.0	7			
	1197	~ 1249 MHz (each 2 MHz BW)		2	5			
		880 ~ 920 MHz	35	38				
Attenuation		$1710 \sim 1850 \text{ MHz}$	40	42				
(dB) (reference level from	om 0	$1850 \sim 1920 \text{ MHz}$	40	42				
dB)		$1920 \sim 1980 \text{ MHz}$	38	41				
		$2400\sim2500\;MHz$	30	34				
Terminating Source & Load Impedance (Ω)			50					
Maximum Input Power (dBm)					10			
DC Voltage (V)					0			

Mechanical Specifications

Parameters	Specifications				
Filter Dimension	1.1 x 0.9 x 0.5 mm				
Mounting Type	SMD Mount				



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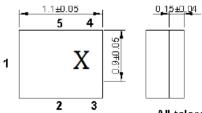


1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

Environmental Specifications

Parameters	Specifications					
Operating Temperature Range	$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$					
Storage Temperature Range	$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$					
MSL level	3					
ESD	100V (MM), 200V (HBM)					

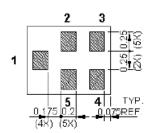
Package Dimensions



All tolerances are +/-0.05 mm unless otherwise specified Coplanarity: 0.1 mm max.

1 to 5 : Pin No.

Unit:mm



Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Marking Description

X: Date Code (Year + Month)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	В	C	D	Е	F	G	Н	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	1	m
2016	n	p	q	r	s	t	u	V	W	X	у	Z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	N	<u>P</u>	Q	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	V	W	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	g	<u>h</u>	j	<u>k</u>	<u>1</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	w	<u>X</u>	У	<u>z</u>



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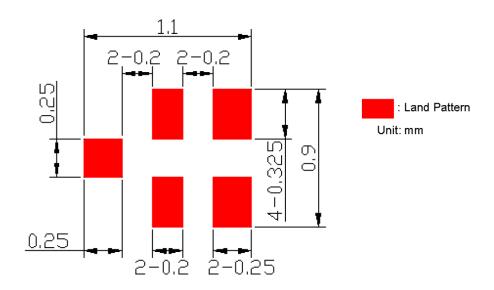


Check Inventory (>)

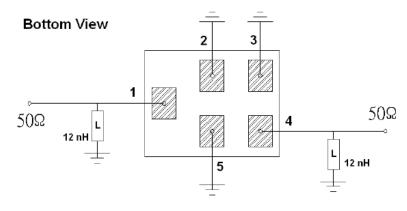


1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

PCB Footprint



Measurement Circuit



Source Impedance: 50 Ω Load Impedance: 50 Ω



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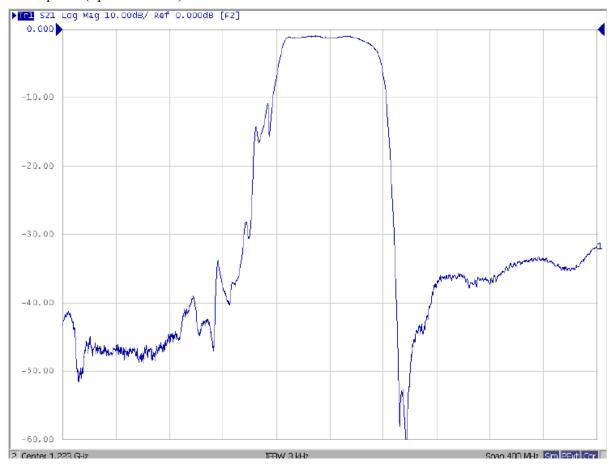
Check Inventory (>)



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Transmission Characteristics

S21 Response (Span 400 MHz)





ABSTS5A2-22NM024M

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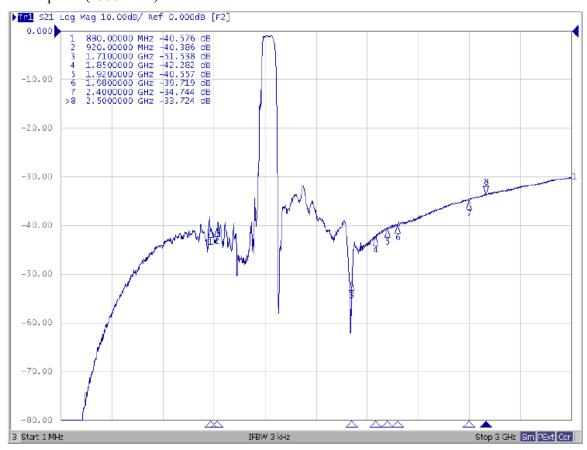


Check Inventory



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

S21 Response (2500 MHz)





ABSTS5A2-22NM024M

Request Samples

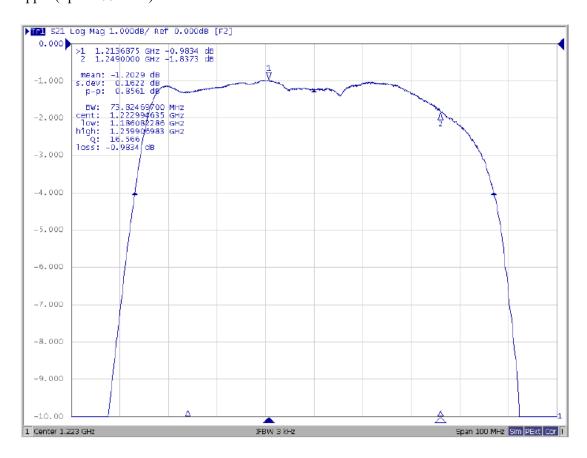


Check Inventory (>)



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Ripple (Span 100 MHz)





ABSTS5A2-22NM024M

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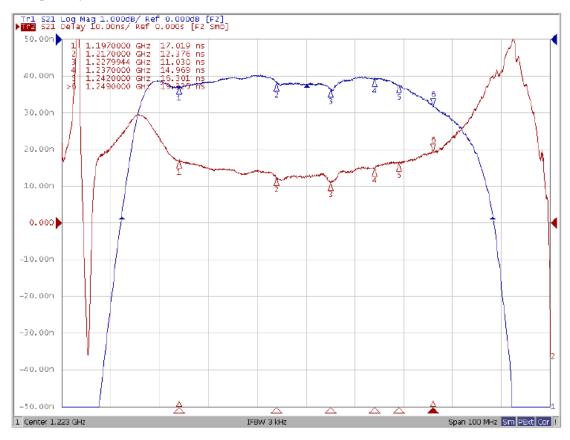


Check Inventory (>)



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Group Delay





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Request Samples



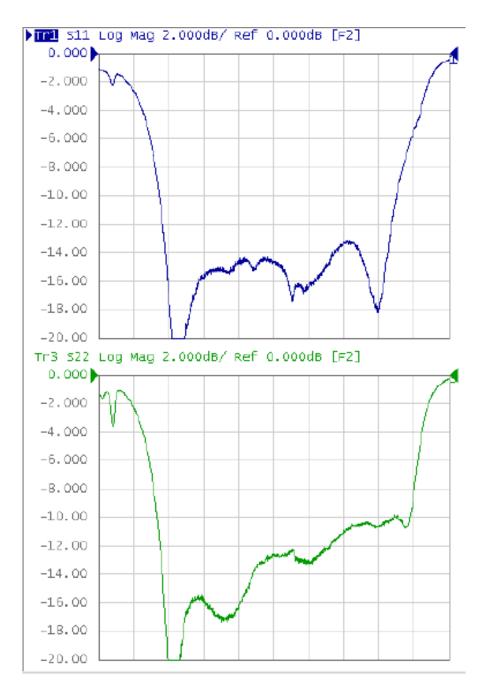
Check Inventory (>)



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Reflection Characteristics

S11 & S22





ABSTS5A2-22NM024M

Request Samples (3)



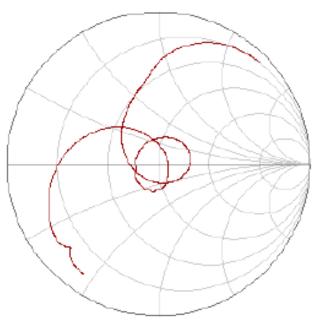
Check Inventory (S)



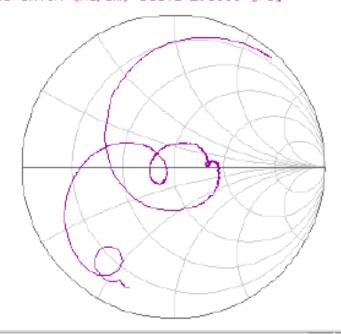
1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

S11 & S22 Smith Chart

Tr2 s11 smith (Re/Im) scale 1.0000 [F2 smo]



Tr4 522 Smith (Re/Im) Scale 1.0000 [F2]





ABSTS5A2-22NM024M

Request Samples



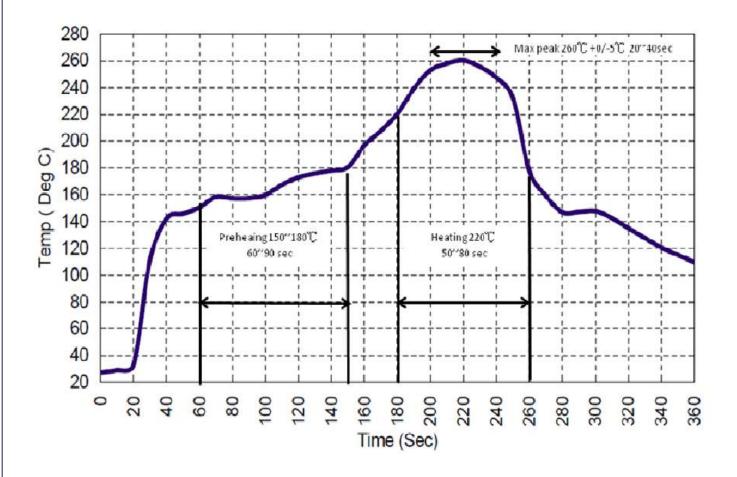
Check Inventory (>)



1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

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 minimum.
- 3. Heating shall be fixed at 220°C for 50~80seconds and at 260°C+0/-5°C peak (20~40sec)
- 4. Time: 2 times





ABSTS5A2-22NM024M

Request Samples



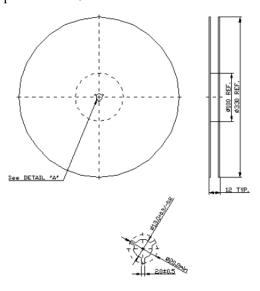
Check Inventory (>)



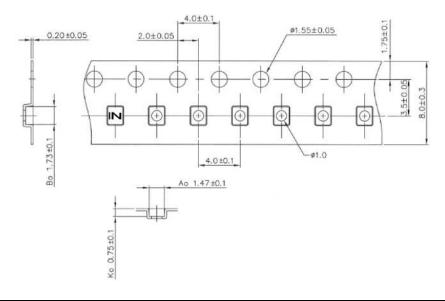
1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Packaging

 Reel Dimension: Number of pieces/ reel: 5k



2. Tape Dimension



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5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISED: 06-03-21

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