ABSTS5A2-3H4M02CM

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

Features

- Low Insertion Loss
- SMD Mount Filter
- Compact Package Size of 1.1 x 0.9 x 0.5mm

Applications

- **Mobile Phones**
- Cellular 4G LTE/ UMTS/ W-CDMA systems
- Low loss RF Filter for Receive path

Electrical Specifications

Вамата	Specifications					
Parame	Min	Тур	Max			
Nominal Center Freque		2140				
Insertion Loss (2110 ~		1.9	2.5			
Amplitude Ripple (2110		0.6	1.5			
Input VSWR (2110) ~ 2170 MHz)		1.8	2.3		
Output VSWR (211	Output VSWR (2110 ~ 2155 MHz)			2.3		
	50 ~ 1710 MHz	35	40			
Attenuation	1710 ~ 1755 MHz	40	42			
(dB)	1920 ~ 1980 MHz	42	45			
	4220 ~ 4340 MHz	30	42			
Terminating Source & I		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				

Environmental Specifications

Parameters	Specifications				
Operating Temperature Range	-30°C ∼ +85°C				
Storage Temperature Range	-40°C ∼ +85°C				
RoHS/ RoHS II Compliant	Yes				
MSL level	3				
ESD	50V (MM), 100V (HBM)				



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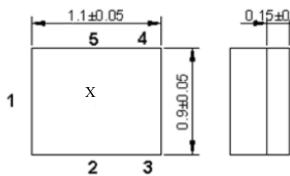


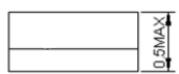
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Package Dimensions

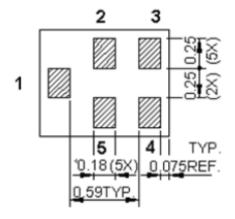




All tolerances are +/-0.05 mm unless otherwise specified

Coplanarity: 0.1mm max 1 to 5: Pin numbers

Unit: mm



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

Marking Description:

X: Year/Month Code (Follow the table)

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	р	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	<u>N</u>	<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>	1	<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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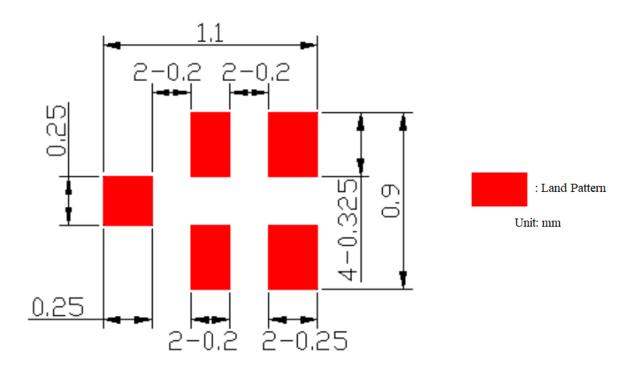


Check Inventory (>)

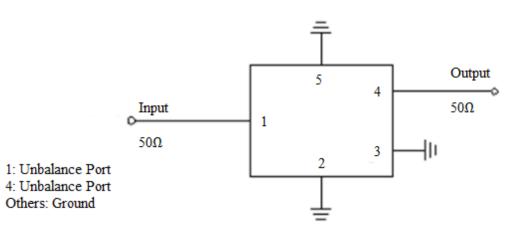


1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

PCB Footprint



Measurement Circuit



Source & Load Impedance: 50Ω



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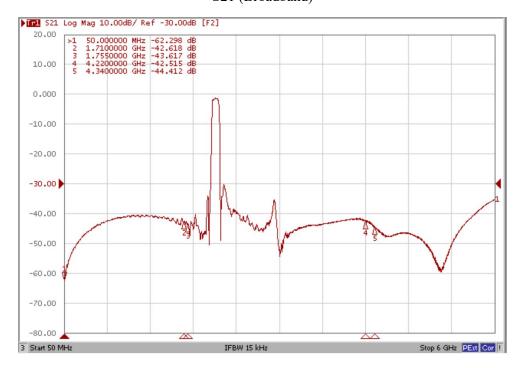
1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Transmission Characteristics

S21 (Narrowband)



S21 (Broadband)





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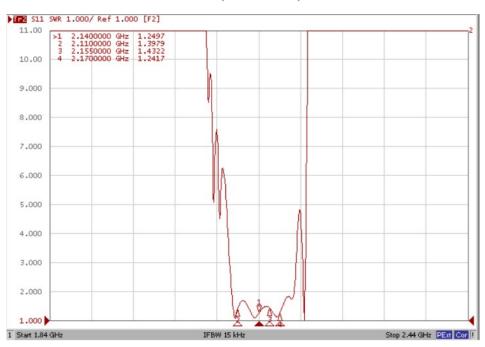
Check Inventory (>)



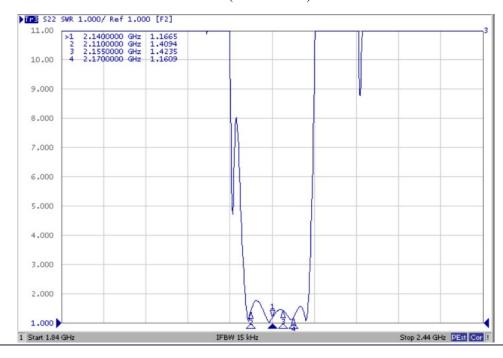
1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

VSWR Graphs

S11 (Narrowband)



S22 (Narrowband)





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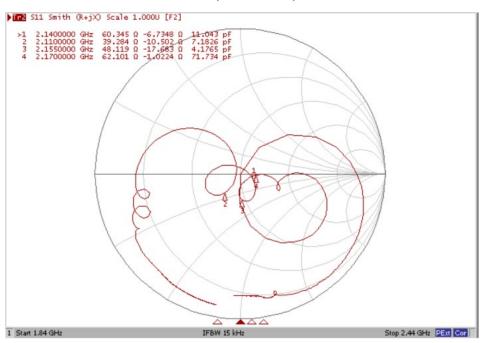
Check Inventory (>)



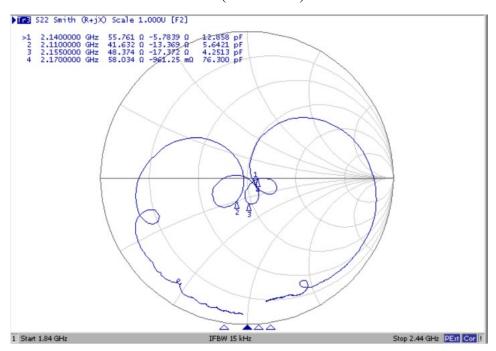
1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

Smith Charts

S11 (Narrowband)



S22 (Narrowband)





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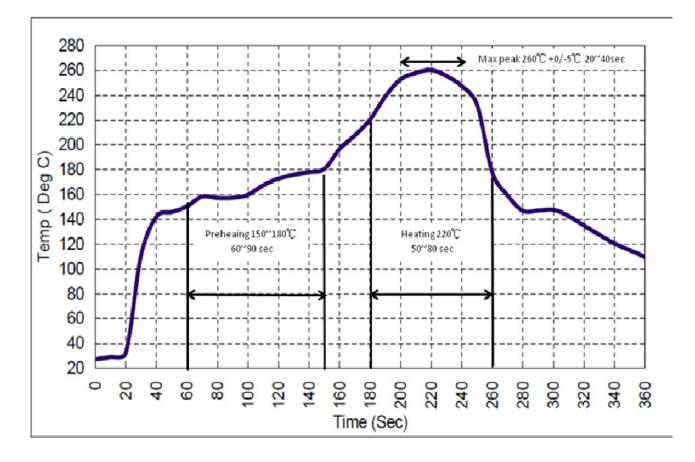
Check Inventory (>)



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

Recommended Reflow Profile

- Preheating shall be fixed at 150°C~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 50~80 seconds and at 260°C+0/-5°C peak (20~40sec.)
- 4. Time: 2 times.





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Check Inventory (>)

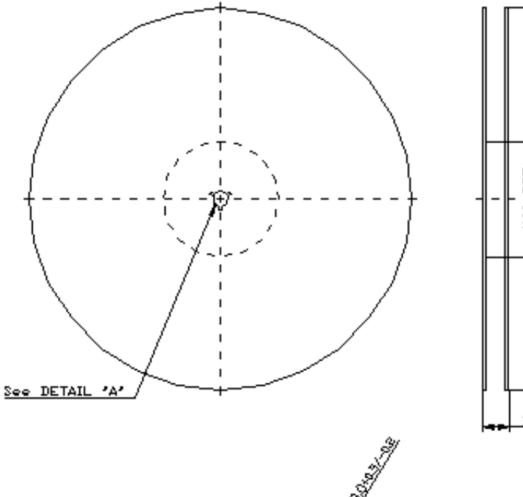


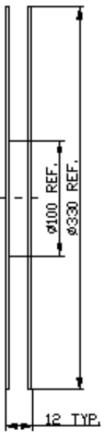
1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

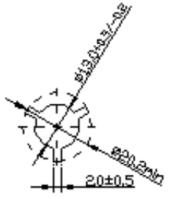
Packaging

Packaging Type: Reel and Tape Pieces per Reel: 5k

Reel Dimension







Unit: mm



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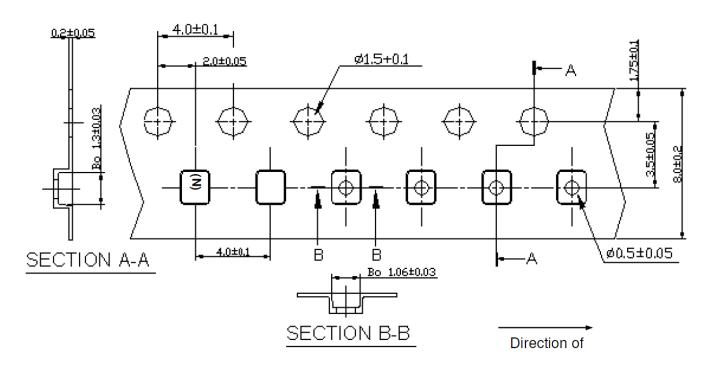


Check Inventory (>)



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

Tape Dimension



Unit: mm

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