ABSTS5A2-396M02CM

Request Samples (>)





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

Features

- Low Loss Insertion
- Usable Bandwidth of 60 MHz
- AECQ-200 Compliant

Applications

- **Automotive Applications**
- Cellular 4G LTE, W-CDMA Systems
- Mobile Communications
- Low Loss Filter for Receive Path

Electrical Specifications

Parameters		Specifications					
Parame	ters	Min Typ Max					
Nominal Center Frequ	Nominal Center Frequency (Fc) (MHz)						
Insertion Loss (1920 ~	1980 MHz) (dB)		1.6	2.5			
Amplitude Ripple (1920		0.6	1.5				
Input VSWR (1920		1.9	2.3				
Output VSWR (1920) ~ 1980 MHz)		1.9	2.3			
	DC ~ 1577 MHz	32	38				
Attenuation	1577 ~ 1880 MHz	22	29				
(dB)	2110 ~ 2170 MHz	30	35				
	2500 ~ 3120 MHz	28	34				
	3840 ~ 3960 MHz	25	29				
	5760 ~ 5940 MHz	15	21				
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				

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 Sensitive	Yes



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: 08-09-19

ABSTS5A2-396M02CM

Request Samples

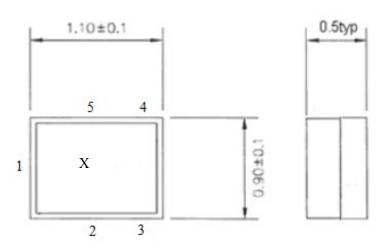


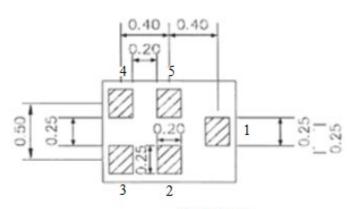
Check Inventory (>)



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

Package Dimensions





Unit: mm

All tolerances are +/-0.05 mm unless otherwise specified

Coplanarity: 0.1mm max 1 to 5: Pin numbers

Unit: mm

Pi	n 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	С	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	с	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	N	<u>P</u>	Q	<u>R</u>	<u>S</u>	<u>T</u>	U	V	W	<u>X</u>	Y	<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>	i	<u>k</u>	1	<u>m</u>
2020	<u>n</u>	p	q	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	V	w	<u>x</u>	У	<u>z</u>



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: 08-09-19

ABSTS5A2-396M02CM

Request Samples (>)

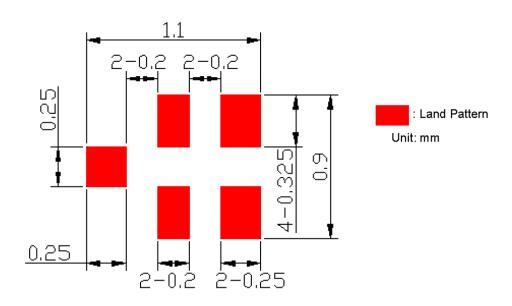


Check Inventory (>)

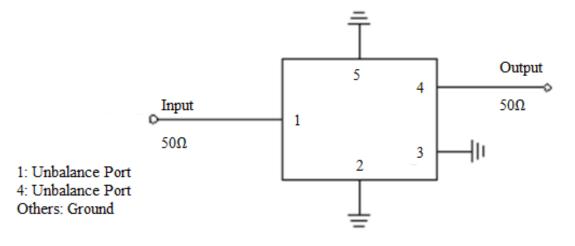


1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

PCB Footprint



Measurement Circuit



Source & Load Impedance: 50Ω



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: 08-09-19

ABSTS5A2-396M02CM

Request Samples



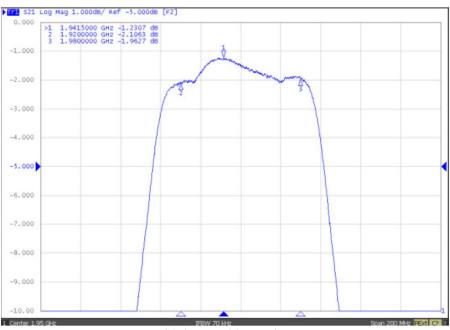
Check Inventory (>)



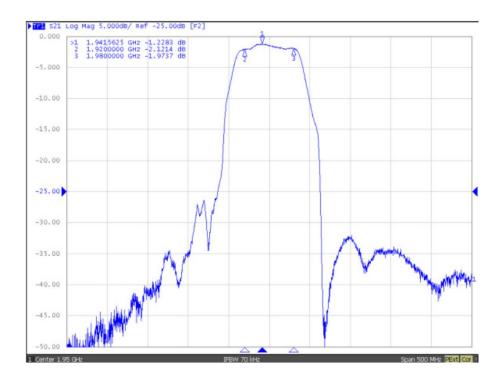
1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Transmission Characteristics

S21 (Span 200 MHz)



S21 (Span 500 MHz)





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: 08-09-19

ABSTS5A2-396M02CM

Request Samples (>)

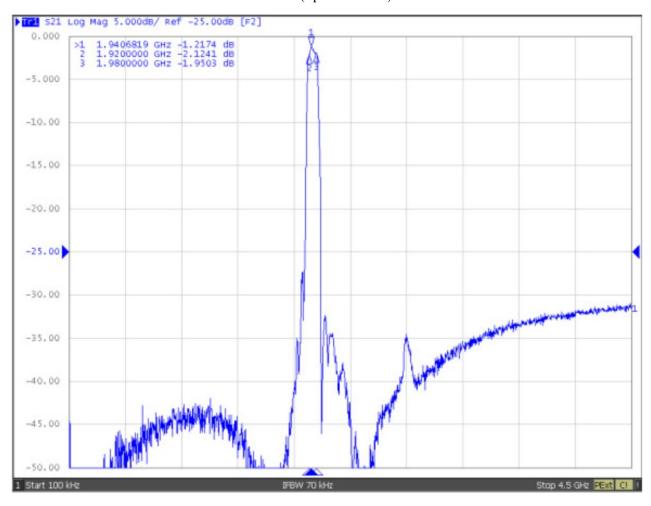


Check Inventory (>)



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

S21 (Span 4.5 GHz)





ABSTS5A2-396M02CM

Request Samples (>)



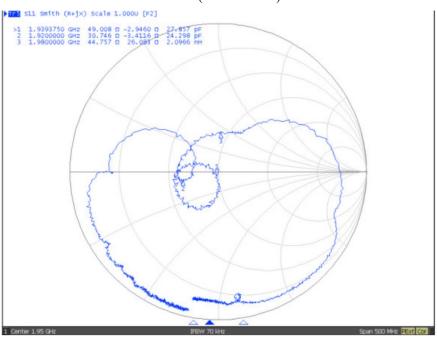
Check Inventory (>)



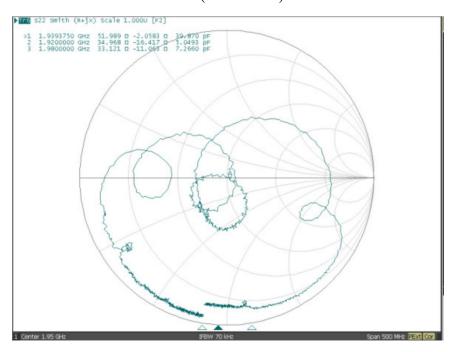
1.1 x 0.9 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 3

Smith Charts

S11 (Narrowband)



S22 (Narrowband)





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: 08-09-19

ABSTS5A2-396M02CM

Request Samples (>)



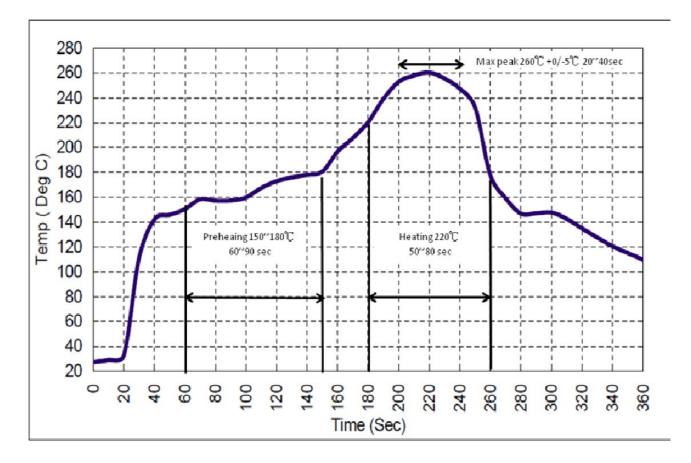
Check Inventory (>)



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°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.





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: 08-09-19

ABSTS5A2-396M02CM

Request Samples (>)



Check Inventory (>)



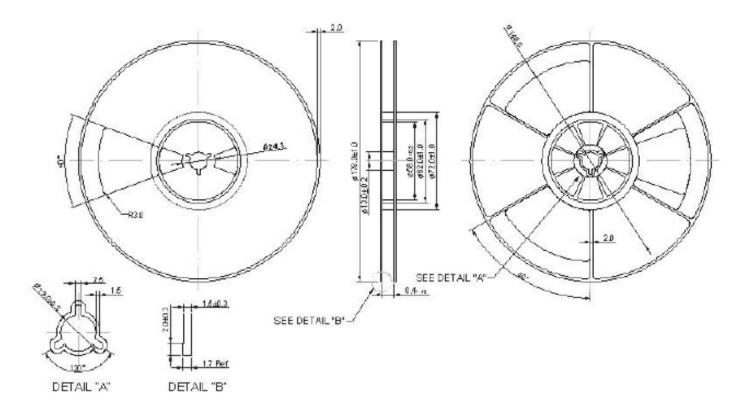
1.1 x 0.9 x 0.5 mm **RoHS/RoHS II Compliant** MSL Level = 3

Packaging

Packaging Type: Reel and Tape

Pieces per Reel: 5k

Reel Dimension



Unit: mm



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: 08-09-19

ABSTS5A2-396M02CM

Request Samples (>)

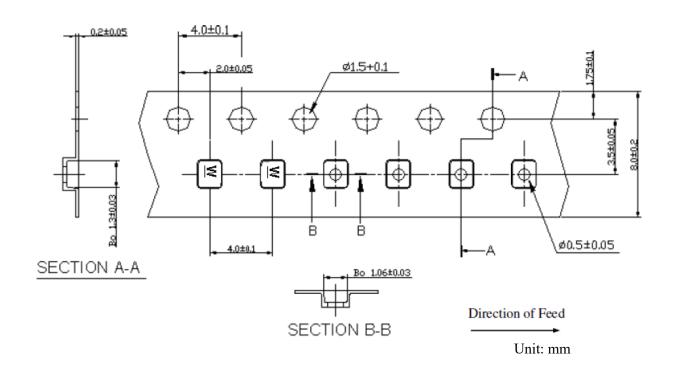


Check Inventory (>)



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

Tape Dimension



ATTENTION: Abracon LLC's products are COTS - Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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: 08-09-19