

815.5MHz SMD SAW FILTER

AFS815.5W01-TS4



RoHS
Compliant



3.0 x 3.0 x 1.5mm

FEATURES:

- 3.0 x 3.0 x 1.5mm SMD package
- Low loss
- Reflow capable
- High input power

APPLICATIONS:

- WCDMA
- Wireless communication
- PDA

STANDARD SPECIFICATIONS:

MAXIMUM RATINGS

Item	Value
Operating Temperature Range	-30°C to +70°C
Storage Temperature Range	-40°C to +85°C
DC Permissive Voltage	3V DC max.
Maximum Input Power	+7 dBm

ELECTRICAL CHARACTERISTICS

Item	Frequency (MHz)	Specification
Center Frequency (fo)	815.5	
Insertion Loss	806.0 ~ 825.0	3.5 dB max.
Group Delay Ripple	806.0 ~ 825.0	50.0 ns max.
Attenuation	851.0 ~ 866.0	40 dB min.
	935.0 ~ 940.0	35 dB min.
	960.65 ~ 979.65	35 dB min.
	1115.3 ~ 1134.3	37 dB min.
	1269.95 ~ 1288.95	40 dB min.
	1612.0 ~ 1650.0	35 dB min.
	1650.0 ~ 2600.0	25 dB min.
Temperature Coefficient of Frequency		-30.0 ppm/°C
VSWR (806.0 ~ 825.0MHz)		2.0 max.
Input Impedance		50Ω
Output Impedance		50Ω

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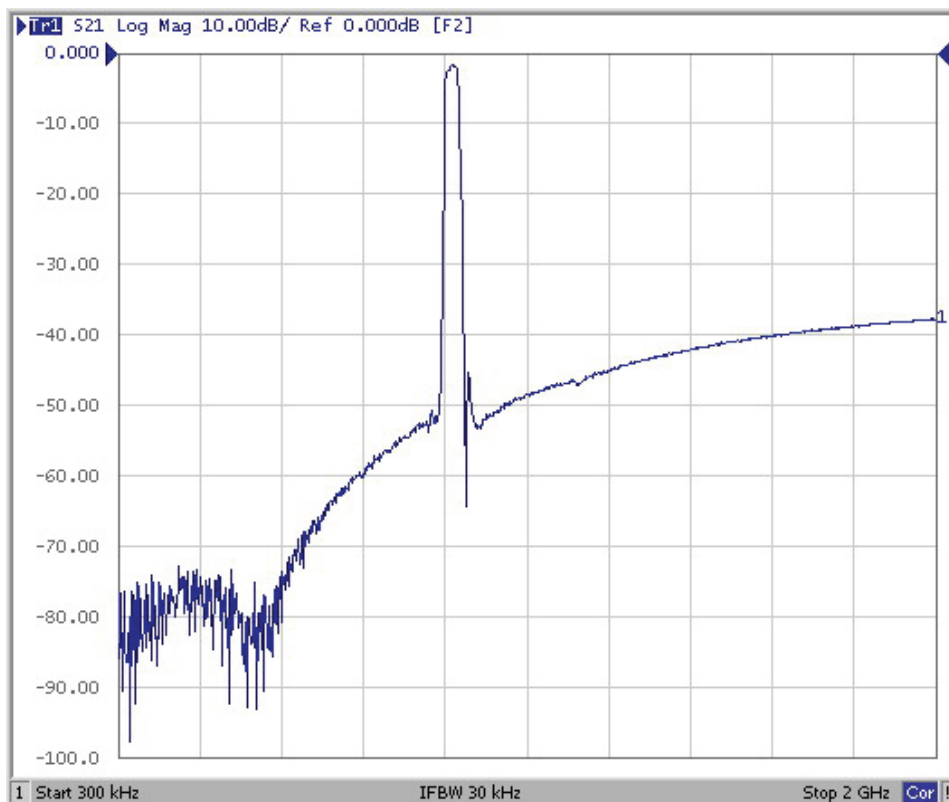
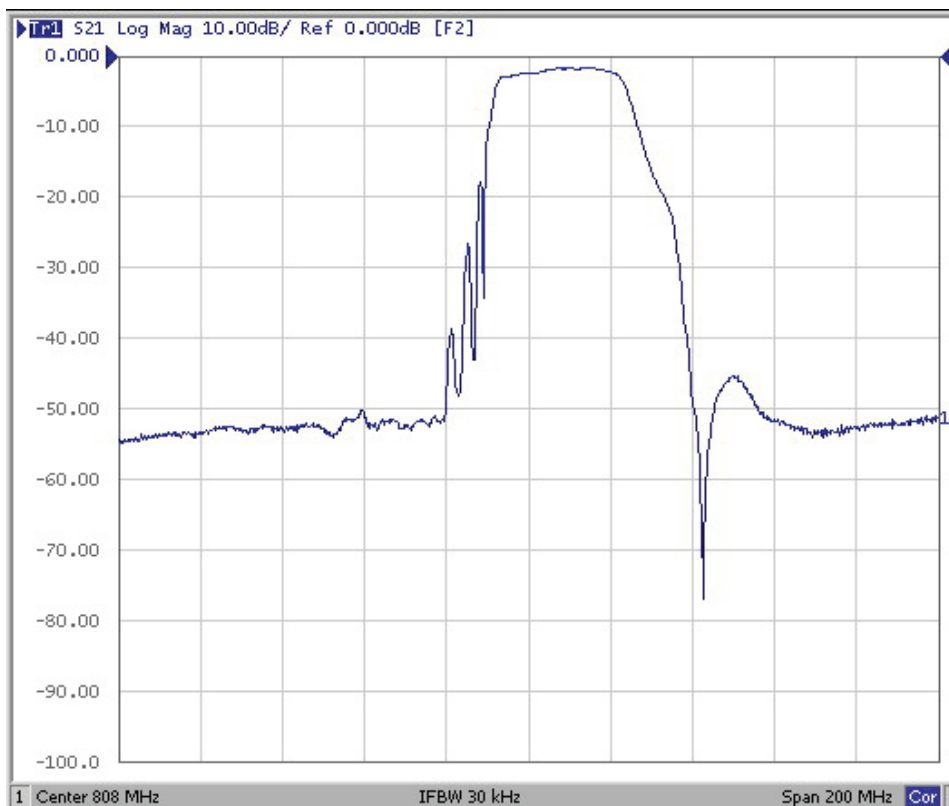


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FREQUENCY CHARACTERISTICS:



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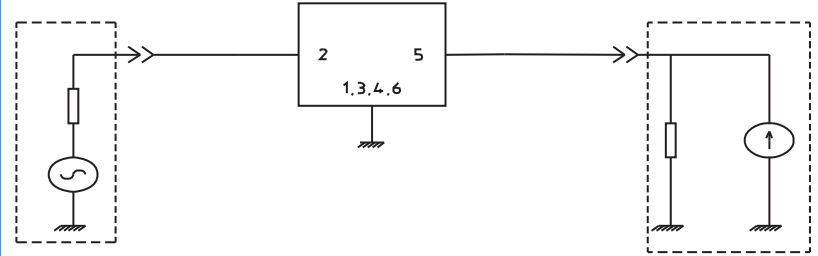
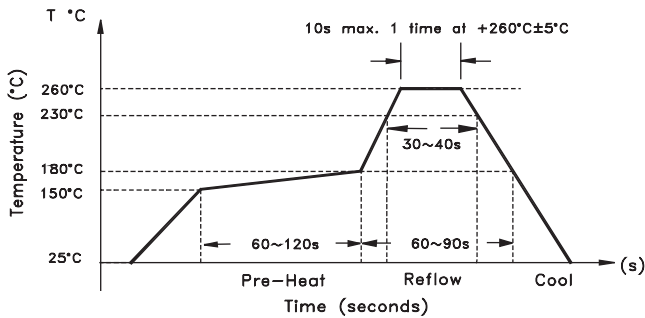
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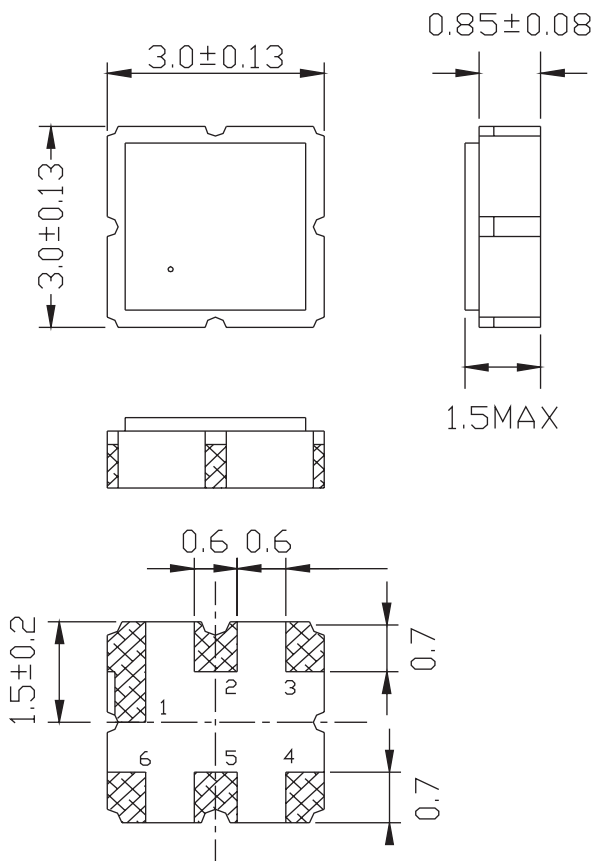
REFLOW PROFILE:

TEST CIRCUIT:



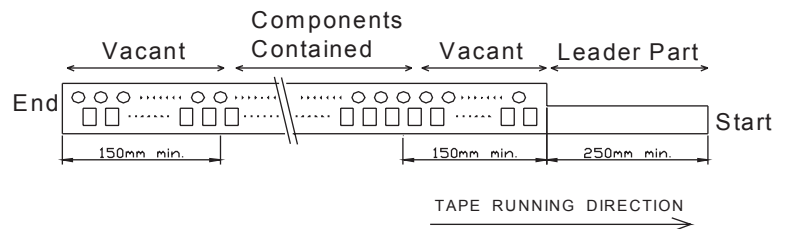
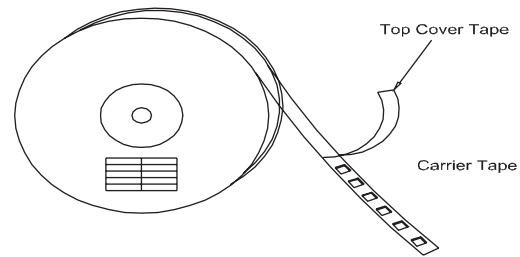
OUTLINE DIMENSIONS:

TAPE & REEL: Tape and reel (3,000pcs/reel)

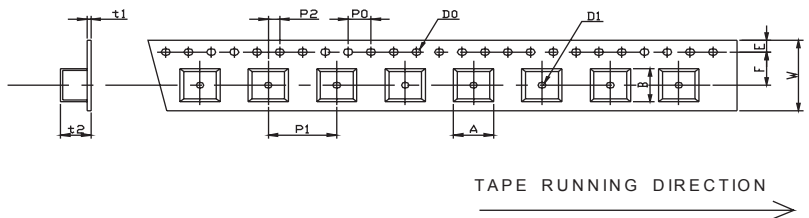


Dimension : mm

Pin No.	Function
Pin 2	Input
Pin 5	Output
Other	Ground



DIMENSION AND PARTS DIRECTION



Dimension : mm

W	F	E	P0	P1	P2	D0	D1	t1	t2	A	B
12.0	5.5	1.75	4.0	4.0	2.0	Φ1.5	Φ1.5	0.31	1.70	3.3	3.3
±0.3	±0.1	±0.1	±0.2	±0.1	±0.2	±0.1	±0.25	max.	max.	max.	max.

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS
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CERTIFIED



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