

942.5MHz SMD SAW FILTER

AFS942.5W05-TS4



RoHS
Compliant



3.0 x 3.0 x 1.5mm

FEATURES:

- 3.0 x 3.0 x 1.5mm SMD package
- Low pass band insertion loss
- Input/output pin terminated with 50ohm
- High input power
- Excellent attenuation

APPLICATIONS:

- GSM
- PDA

STANDARD SPECIFICATIONS:

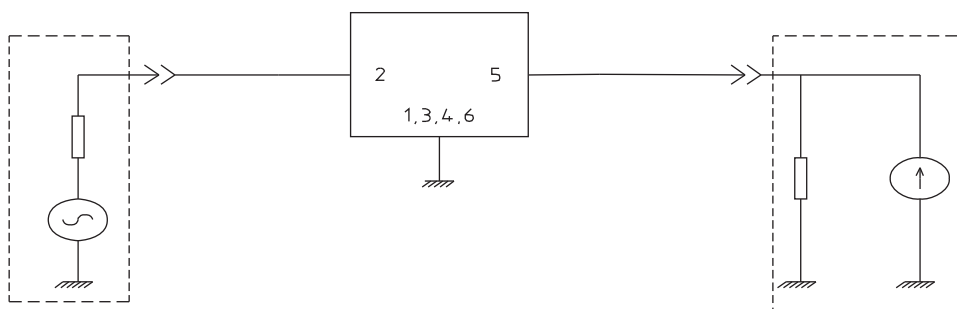
MAXIMUM RATINGS

Item	Value
Operation Temperature Range	-30°C to + 85°C
Storage Temperature Range	-40°C to + 85°C
DC Permissive Voltage	3V DC max.
Maximum Input Power	15 dBm

ELECTRICAL CHARACTERISTICS

Item	Min	Typ.	Max
Center Frequency (fo)	--	942.5MHz	--
Insertion Loss 925 ~ 960 MHz	--	2.8 dB	4.0 dB
Amplitude Ripple 925 ~ 960 MHz	--	1.1 dB	2.3 dB
Attenuation: 0 ~ 800 MHz	50 dB	63 dB	--
800 ~ 880 MHz	40 dB	48 dB	--
880 ~ 905 MHz	35 dB	43 dB	--
980 ~ 982 MHz	20 dB	27 dB	--
982 ~ 1005 MHz	23 dB	28 dB	--
1005 ~ 1025 MHz	29 dB	33 dB	--
1025 ~ 1760 MHz	40 dB	50 dB	--
1760 ~ 2300 MHz	30 dB	41 dB	--
2300 ~ 3000 MHz	20 dB	28dB	--
Impedance at fo Input $Z_{IN} = R_{IN} // C_{IN}$ Output $Z_{OUT} = R_{OUT} // C_{OUT}$	50Ω//0pF 50Ω//0pF		

TEST CIRCUIT:



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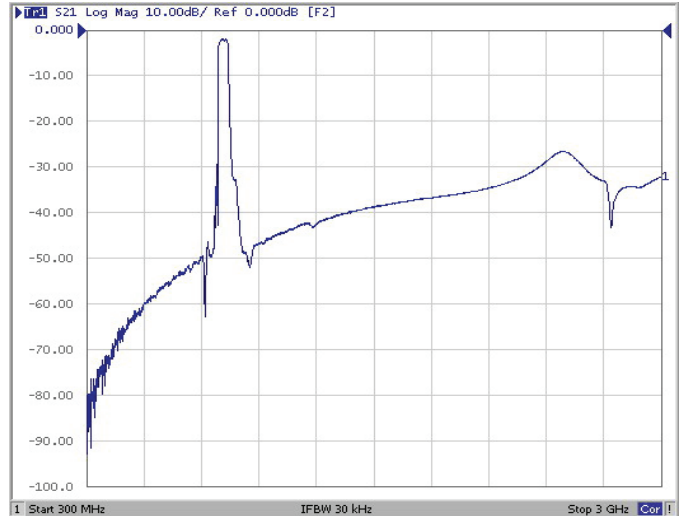
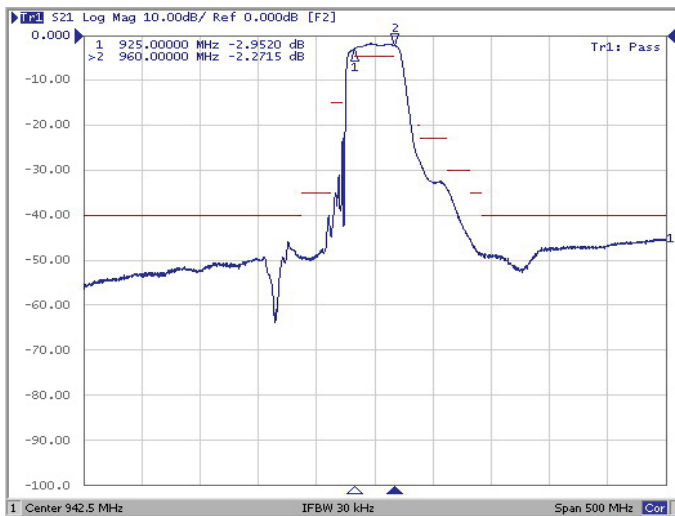


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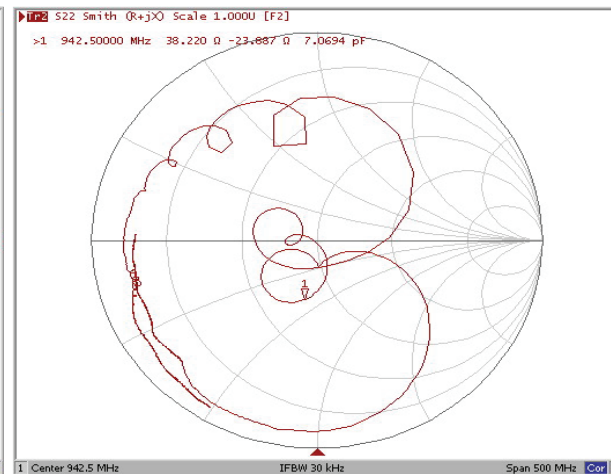
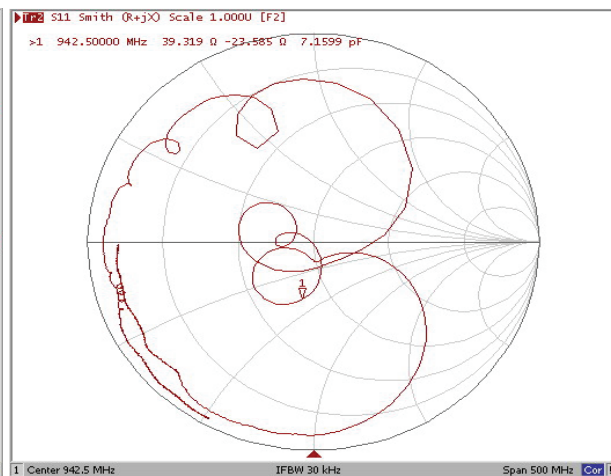


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FREQUENCY CHARACTERISTICS:



REFLECTION FUNCTIONS:



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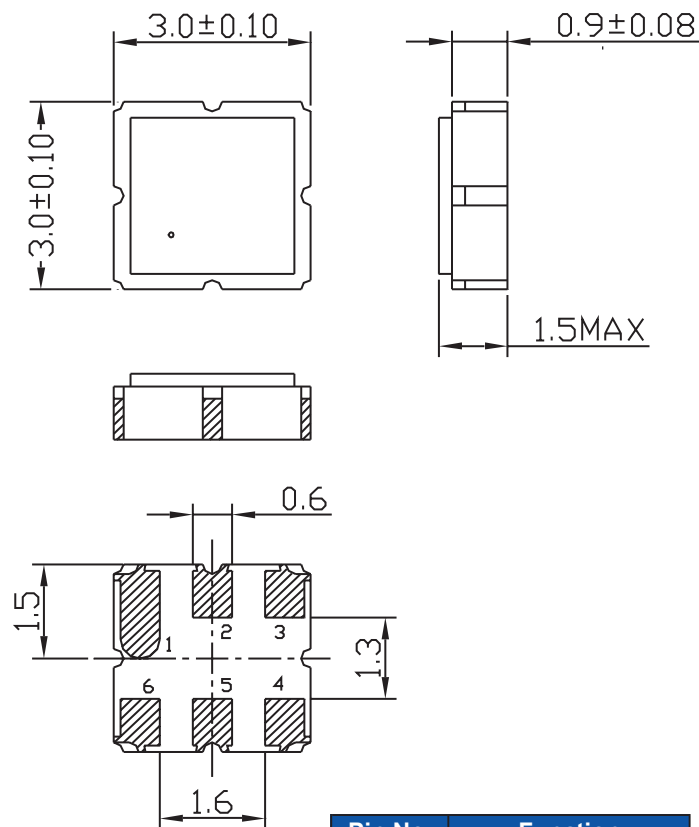


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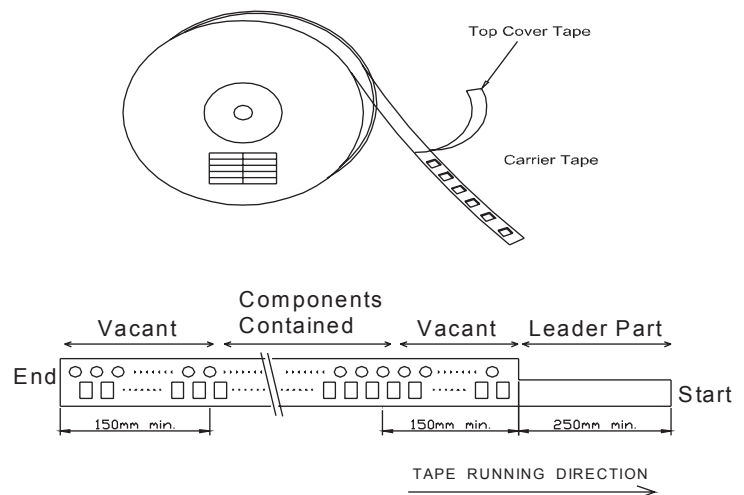
OUTLINE DIMENSIONS:



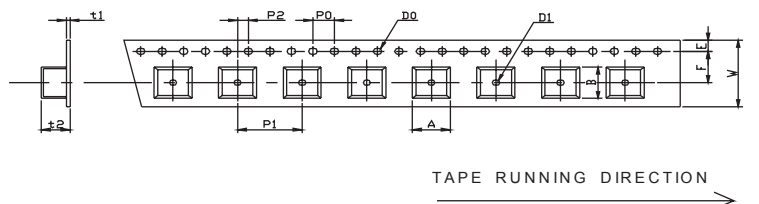
Pin No.	Function
Pin 2	Input
Pin 5	Output
Other	Ground

Dimension : mm

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



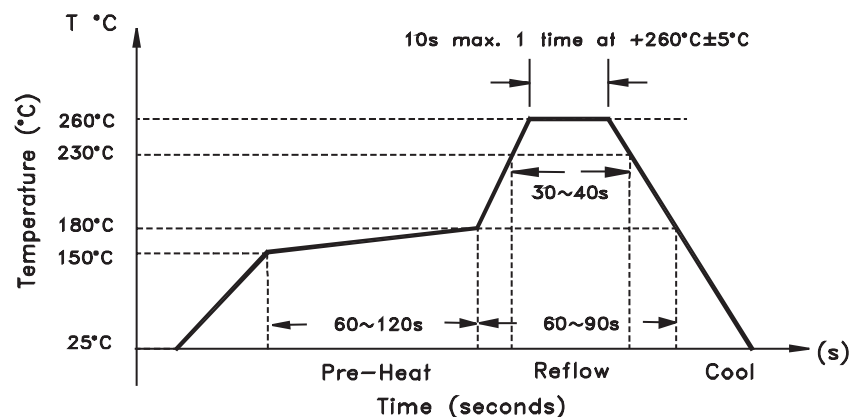
TAPE & REEL DIMENSION AND PARTS DIRECTION



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.

Dimension : mm

REFLOW PROFILE:



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.

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