

465MHz SMD SAW FILTER

AFS465.0W09-TS4



RoHS
Compliant



3.0 x 3.0 x 1.5 mm

FEATURES:

- 3.0 x 3.0 x 1.5 mm SMD package
- High rejection

APPLICATIONS:

- CDMA450
- Wireless communication
- 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	10V DC max.
Maximum Input Power	+27 dBm

ELECTRICAL CHARACTERISTICS

Item	Minimum	Typical	Maximum	Unit	
Center Frequency (f_c)	--	465.0	--	MHz	
Insertion Loss (462.5 MHz ~ 467.5MHz)	--	2.0	2.8	dB	
VSWR (462.5 MHz ~ 467.5MHz)	--	1.5 : 1	2.0 : 1		
Relative Loss	0.30MHz ~ 440MHz	55	65	--	dB
	440MHz ~ 452.5MHz	40	46	--	
	452.5MHz ~ 457.5MHz	30	40	--	
	485.0MHz ~ 495.0MHz	25	30	--	
	495.0MHz ~ 530.0MHz	42	48	--	
	530.0MHz ~ 1200.0MHz	50	65	--	
	1200.0MHz ~ 1500.0MHz	30	40	--	
	1500.0MHz ~ 3000.0MHz	45	50	--	
Temperature Coefficient of Frequency	--	-30	--	ppm/ °C	
Terminating Source Impedance	--	50	--	Ω	
Terminating Load Impedance	--	100	--	Ω	

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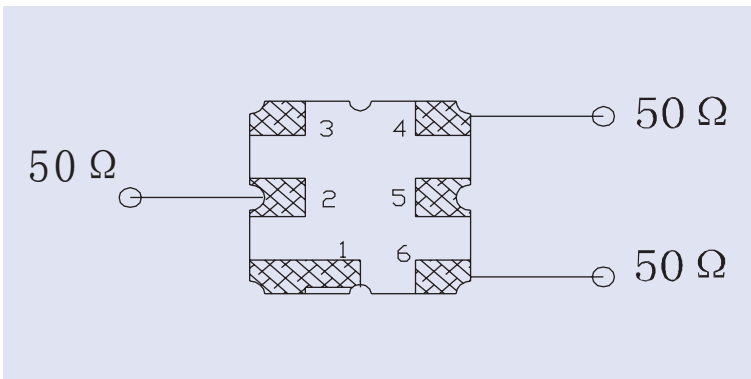


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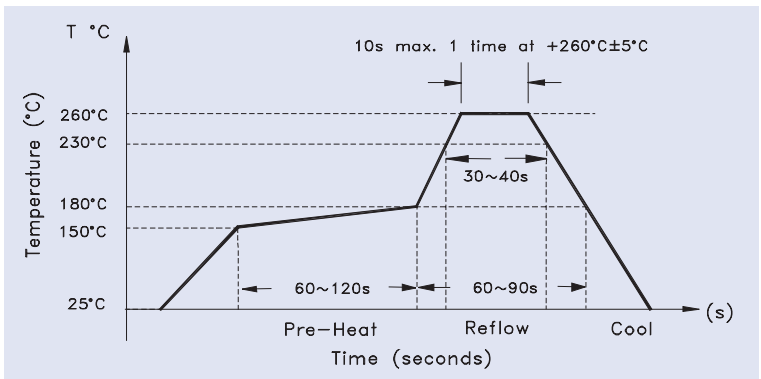


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TEST CIRCUIT:

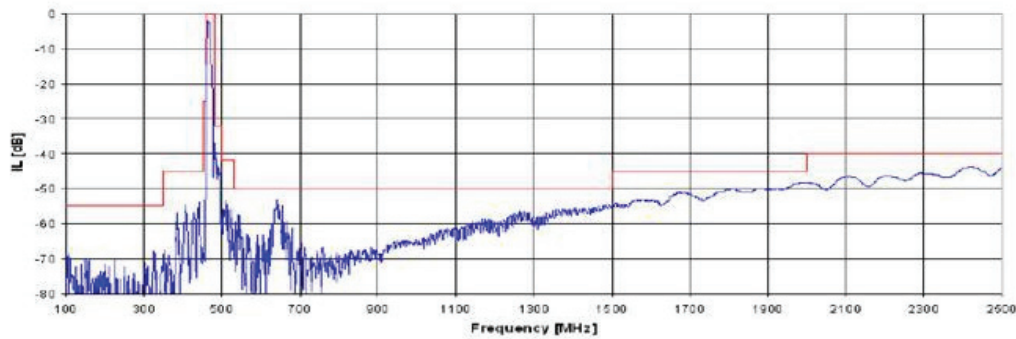
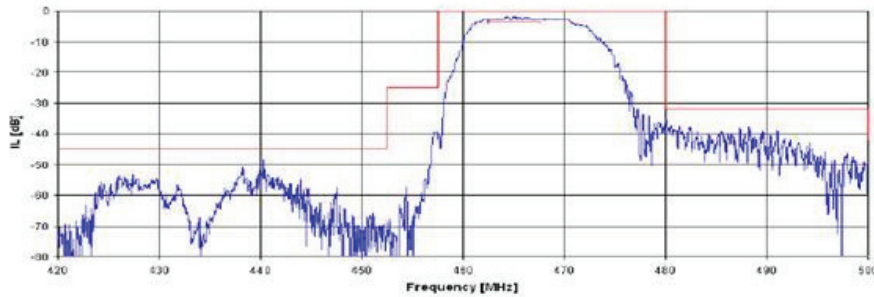


REFLOW PROFILE:

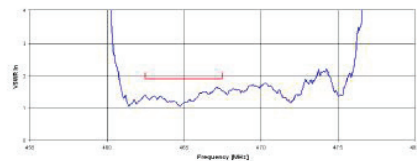


FREQUENCY CHARACTERISTICS:

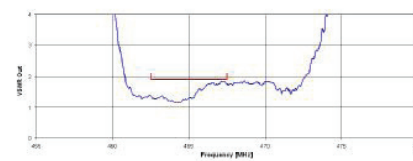
Frequency response



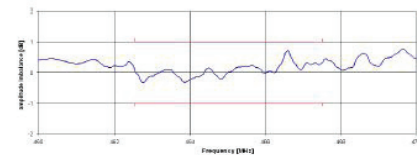
VSWR In



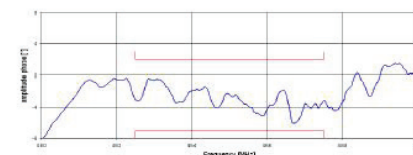
VSWR Out



Amplitude Imbalance



Phase Imbalance



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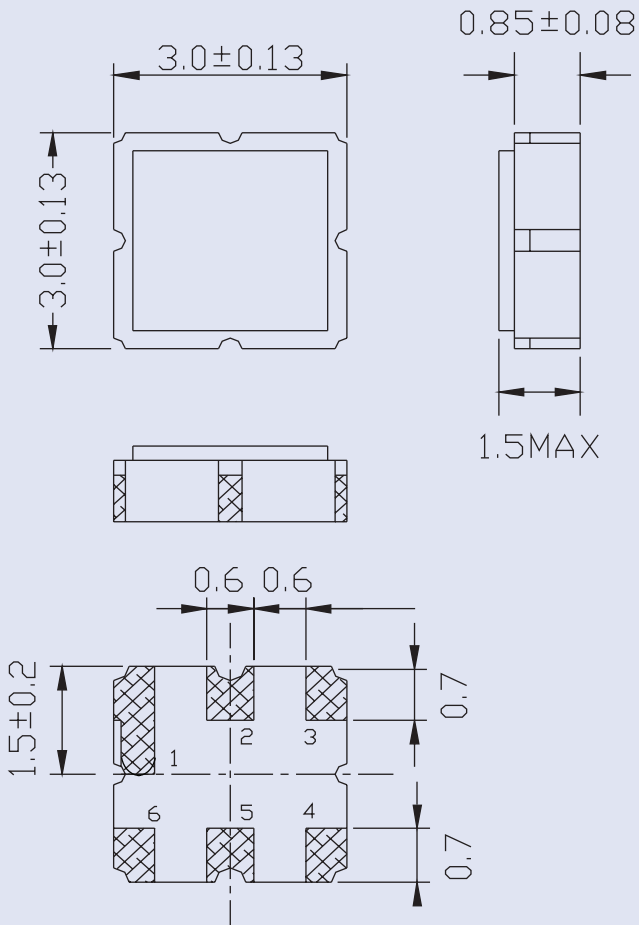
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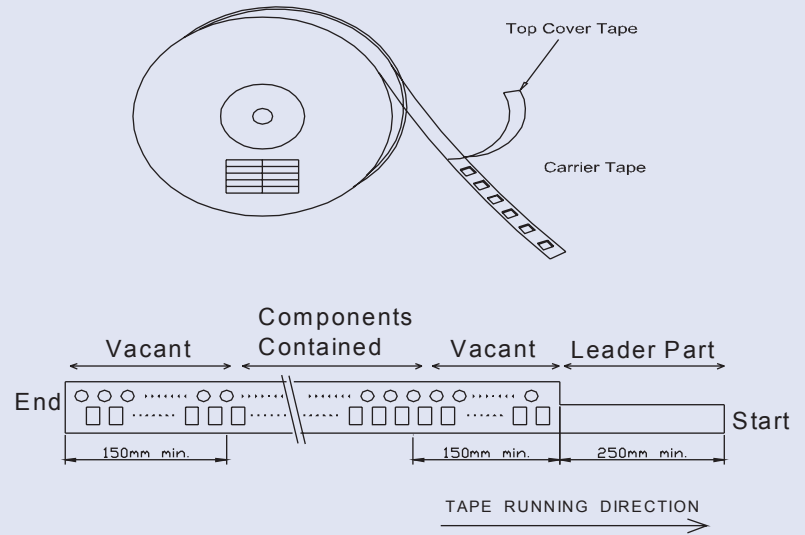
OUTLINE DIMENSIONS:

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

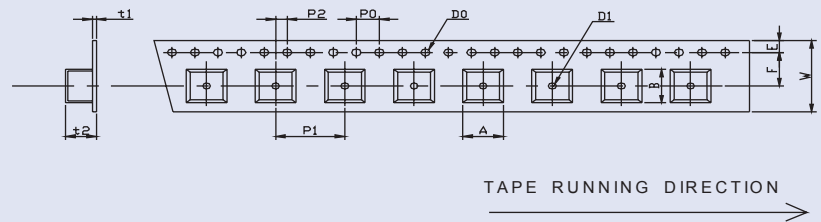


Pin No.	Function
Pin 2	RF Input
Pin 4	+RF Output
Pin 6	-RF Output
Pin 1,3,5	Case Ground

Dimension : mm



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	1.90	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