

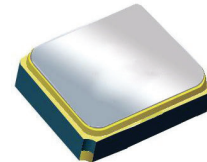
Surface Mount 2185.00MHz SAW Filter

AFS14A30-2185.00-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



RoHS
Compliant



1.4 x 1.1 x 0.7 mm

FEATURES:

- 1.4 x 1.1 x 0.7 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

APPLICATIONS:

- Wireless Communication
- Remote Control
- Cellular Phones

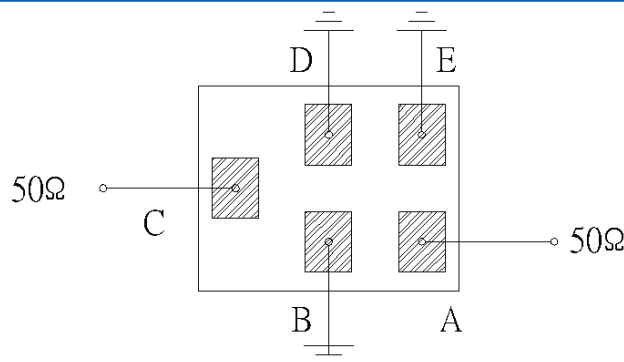
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30°C to + 105°C
Storage Temperature Range	-40°C to + 105°C

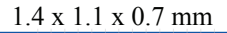
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		2185		MHz	
Insertion Loss (IL)		2.0	3.50	dB	(2170.00~2200.00MHz)
Effective Bandwidth		30.00		MHz	
Amplitude Ripple		0.50	2.30	dB	(2170.00~2200.00MHz)
Worst-Case Input / Output Return Loss		12.73	10.88	dB	(2170.00~2200.00MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	29	30.5		dB	DC~1980 MHz
	32	39.4			1980~2010 MHz
	20	32			2010~2110 MHz
	20	27			2260~2300 MHz
	29	34			2300~3500 MHz
	20	23			3500~6000 MHz
Terminating Source Impedance (Z_S)		50		Ω	
Temperature Coefficient of Frequency		-36		ppm/°C	

TEST CIRCUIT:

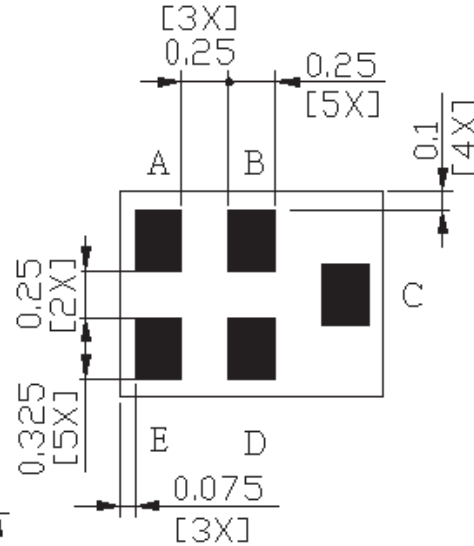


Bottom View

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top view



C:	Input
A:	Output
B, D, E:	Ground

Technical drawing of a 2D grid with dimensions. The grid is composed of squares. The overall width is 1.6 and the overall height is 1.3. The grid is divided into four quadrants by a vertical line at 0.425 and a horizontal line at 0.525. The dimensions are as follows:

- Overall width: 1.6
- Overall height: 1.3
- Vertical line position: 0.425
- Horizontal line position: 0.525
- Top-left quadrant width: 0.425, height: 0.325
- Top-right quadrant width: 0.425, height: 0.325
- Bottom-left quadrant width: 0.425, height: 0.525
- Bottom-right quadrant width: 0.425, height: 0.525

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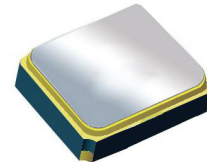
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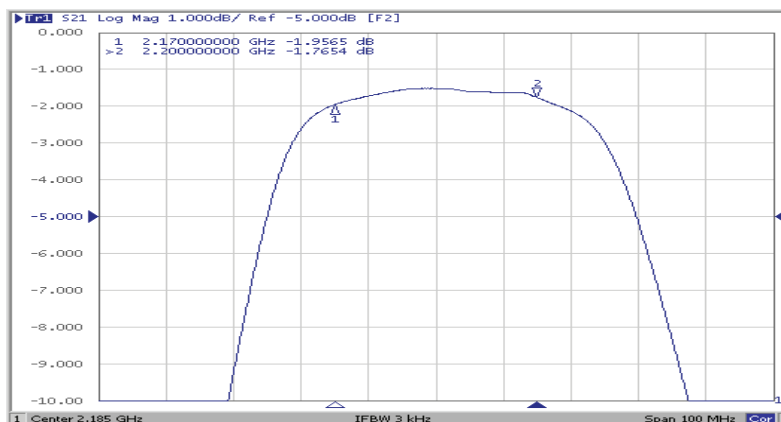
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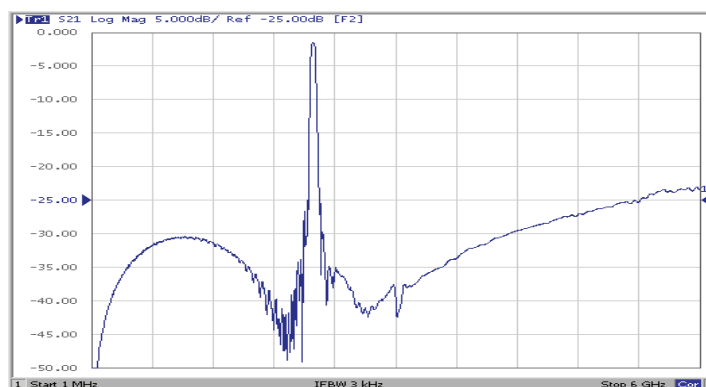
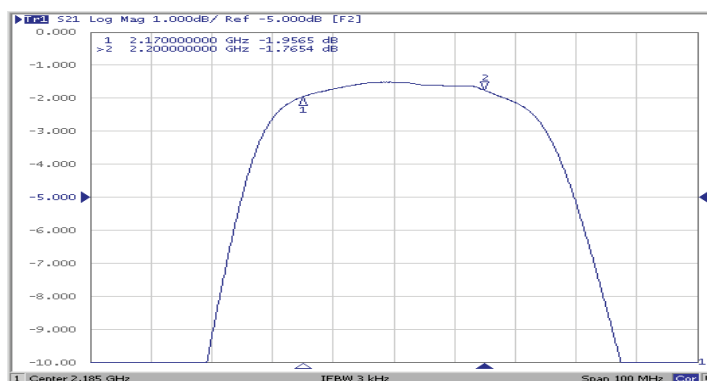
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

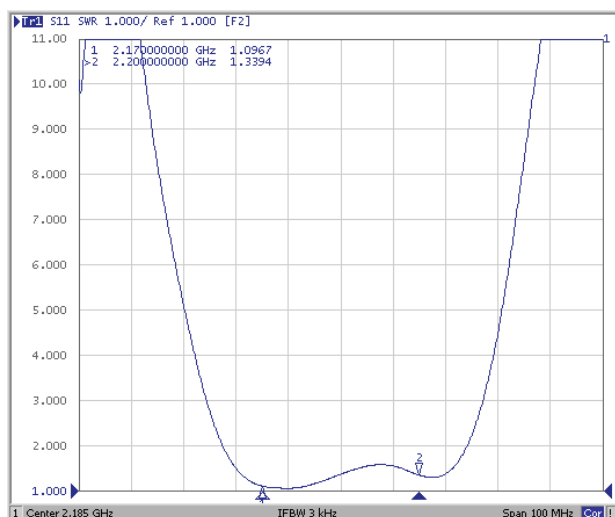


Filter Frequency Response (Wideband)

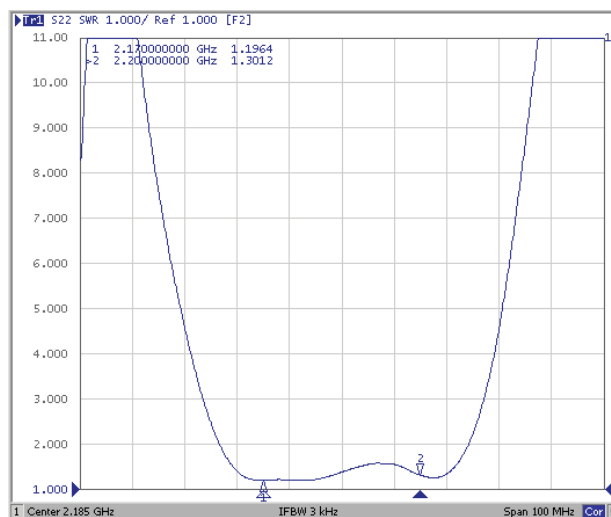


REFLECTION FUNCTIONS:

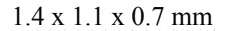
S11



S22



AFS14A30-2185.00-T3



Time (Sec)	Temp (Deg C)
0	20
20	25
40	145
60	150
80	155
100	160
120	170
140	175
160	190
180	210
200	250
220	260
240	240
260	170
280	145
300	145
320	130
340	115
360	105

The technical drawing illustrates a wheel assembly with three main views:

- Front View (Left):** Shows a circular wheel with a central hub. The outer rim has a radius of R20. A small section at the top left is defined by a 6° angle. A dimension of 2.0 is shown for the distance from the center to the top edge.
- Side View (Middle):** Shows the profile of the wheel. Key dimensions include:
 - Total width: 84.0
 - Hub diameter: φ176 H9/k9
 - Spoke thickness: 2.0
 - Spoke width: 11.0 ± 0.2
 - Spoke height: 40.0 ± 0.3
 - Spoke hole diameter: φ20 H9/k9
 - Spoke hole depth: 97.0 ± 0.3
- Detail "A" (Bottom Left):** A cross-sectional view of the spoke-hub junction. It shows a fillet with a radius of R2. Dimensions include a total width of 25, a base width of 15, and a fillet height of 2.5 ± 0.4. An angle of 12° is indicated at the bottom.
- Detail "B" (Bottom Middle):** A cross-sectional view of the spokes. It shows two spokes with a total width of 15 ± 0.2 and individual spoke widths of 7.5 ± 0.3. The distance between the centers of the spokes is 17.0 ± 0.1.
- Rear View (Right):** Shows the back of the wheel with eight spokes. A dimension of 3.0 is shown for the distance from the center to the outer rim. An angle of 60° is indicated between adjacent spokes.

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