



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

1030 MHz SAW Filter

Part Number: AE1030SB1181



Electronic Characteristics	Minimum	Typical	Maximum	Unit
Center Frequency	-	1030.00	-	MHz
Insertion Loss (Min)	-	1.5	2.0	dB
Amplitude Ripple (p-p) 1010.00 – 1050.00 MHz	-	0.9	1.5*	dB
3 dB Bandwidth	-	46.6	-	MHz
50 dB Bandwidth	-	81.9	-	MHz
Shape Factor (BW50dB / BW3dB)	-	-	2.0	-
Group Delay Ripple 1010.00 – 1050 MHz	-	20.0	50.0	ns
Absolute Attenuation				
DC – 960.00 MHz	45.0	48.0	-	dB
1120.00 – 1500.00 MHz	40.0	45.0	-	dB
1500.00 – 2500.00 MHz	40.0	43.0	-	dB
1090.00 – 1250.00 MHz	50.0	53.0	-	dB
1250.00 – 1600.00 MHz	40.0	45.0	-	dB
Input VSWR 1010.00 – 1050.00 MHz		1.8:1	2.0:1	-
Output VSWR 1010.00 – 1050.00 MHz		1.8:1	2.0:1	-

Parameters Description	Value	Unit
Package Type	SMT	
Dimensions	3.80 x 3.80 x 1.50 mm	
DC Voltage	5	V
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C
RF Power Dissipation	20	dBm
Test Temperature	25°C to +2°C	
Terminating Source Impedance	50Ω	
Terminating Load Impedance	50Ω	



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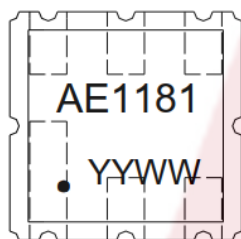
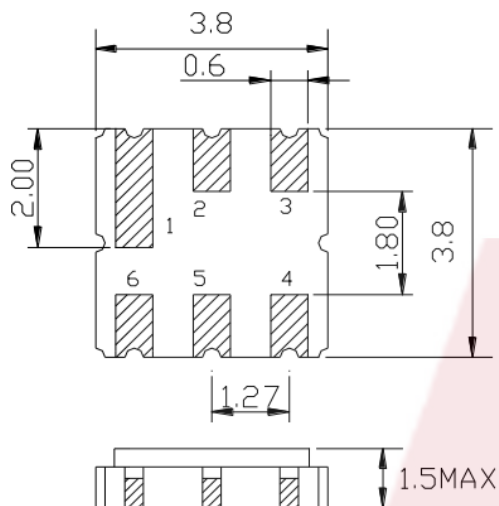
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Outline Drawing:



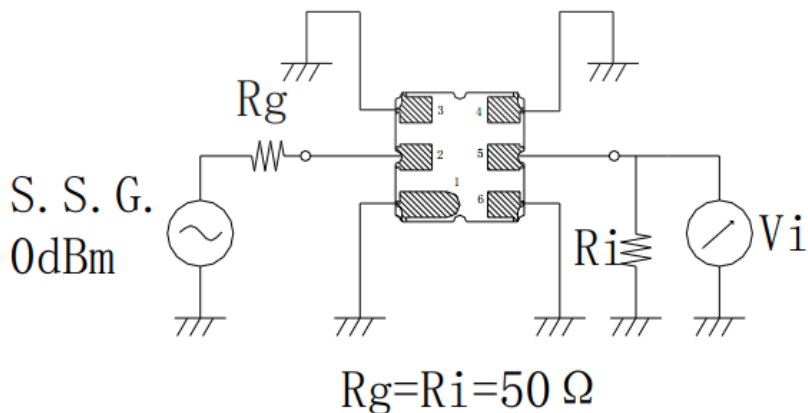
Pin Configuration

Pin No.	Description
2	Input
5	Output
1,3,4,6	Ground

Marking Description

●	Pin 1
* YYWW	Year Code & Week Code

Testing Environment:



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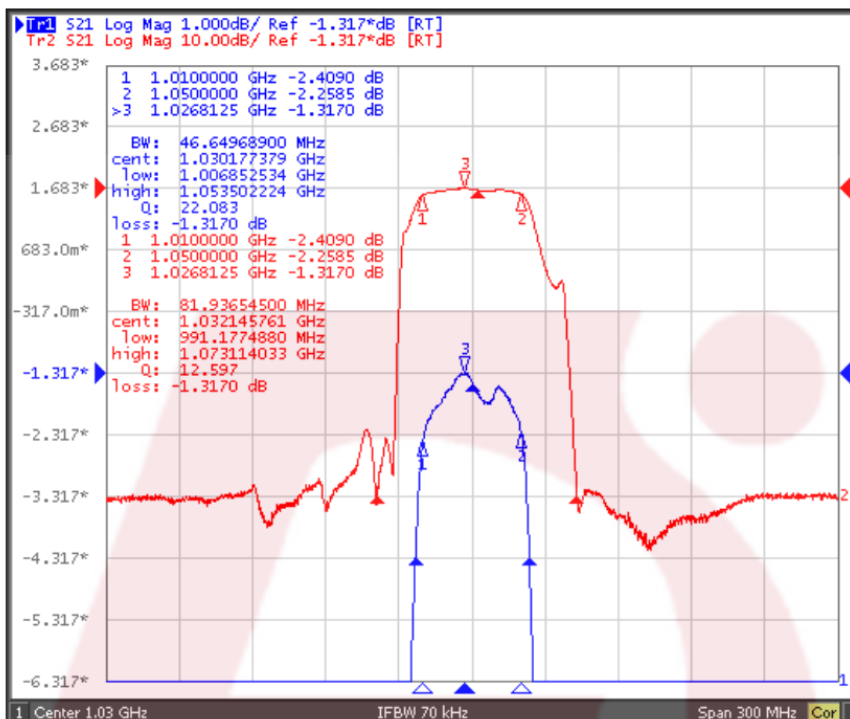
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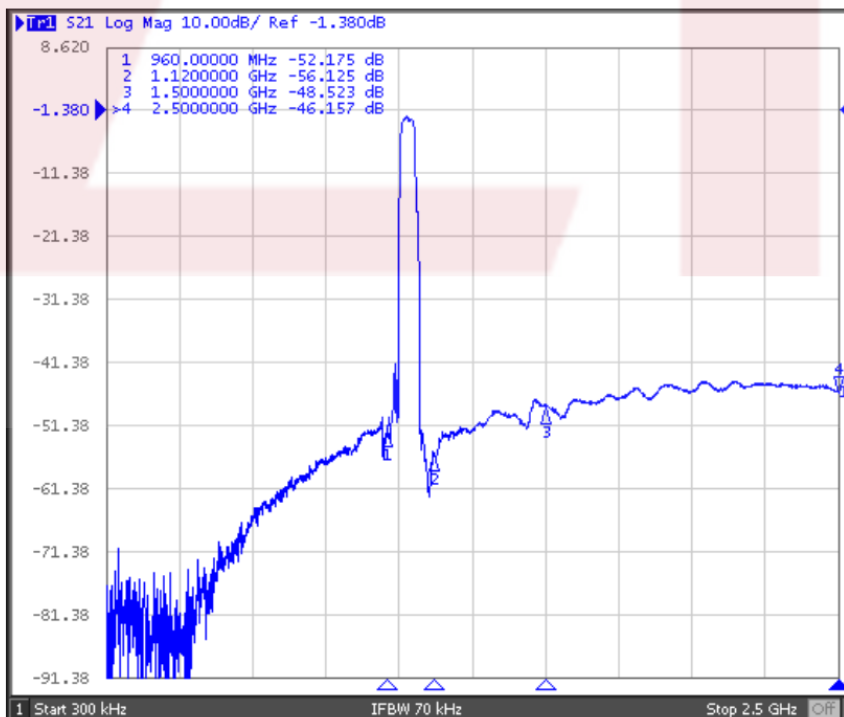
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Response Plot:



Response Plot (Wideband):



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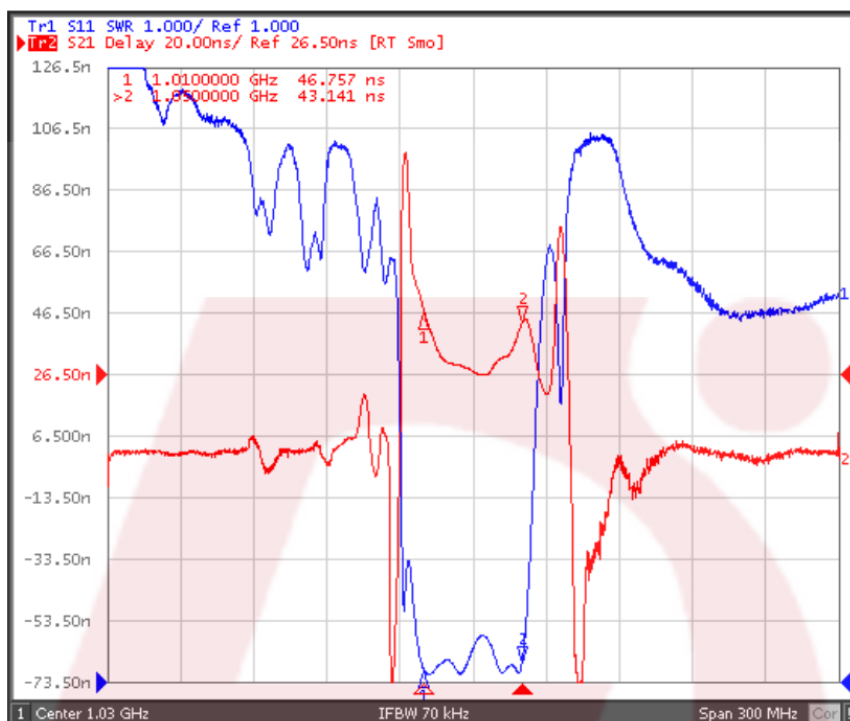
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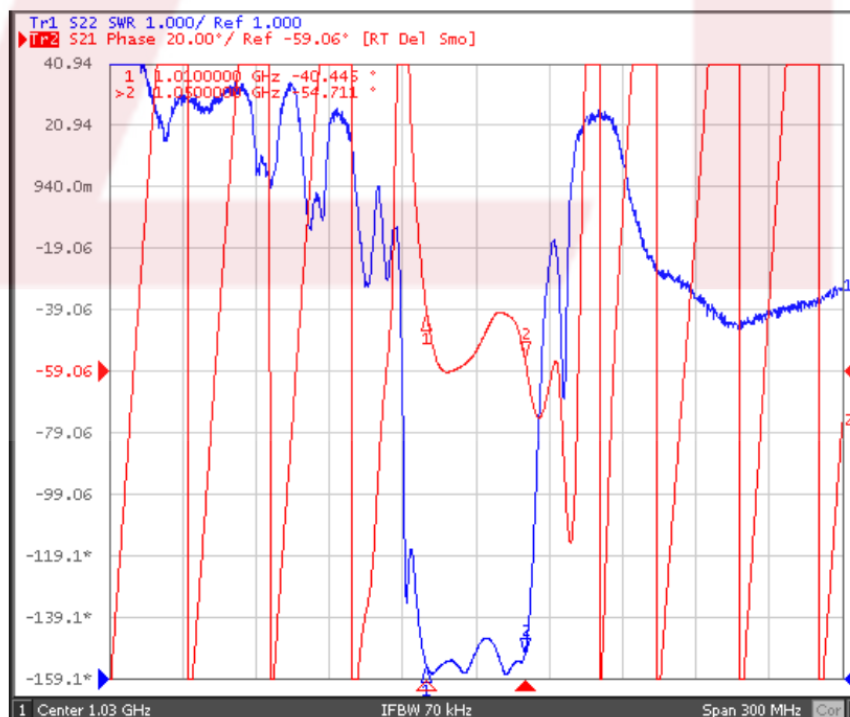
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Delay Ripple & S11 VSWR



Phase Linearity & S22 VSWR



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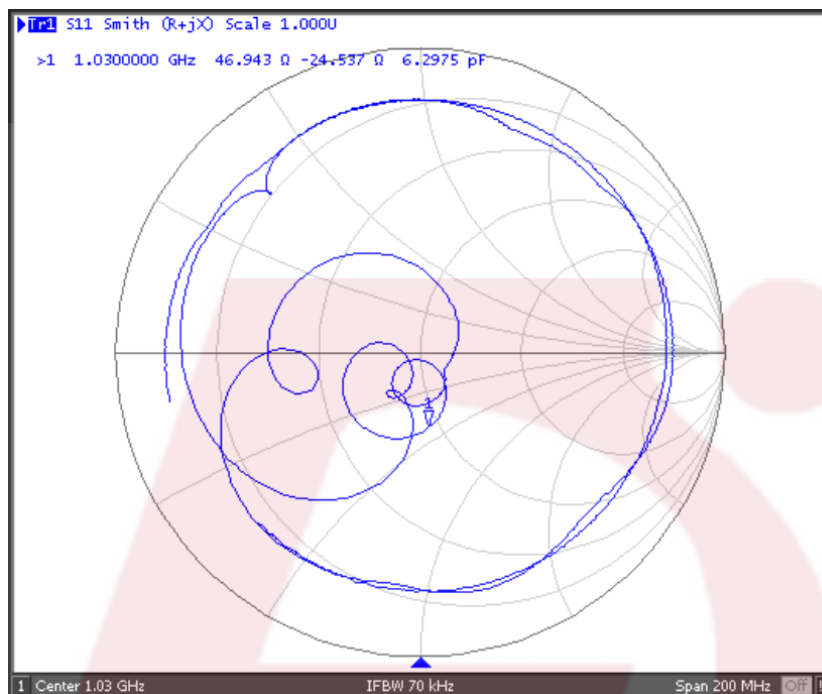
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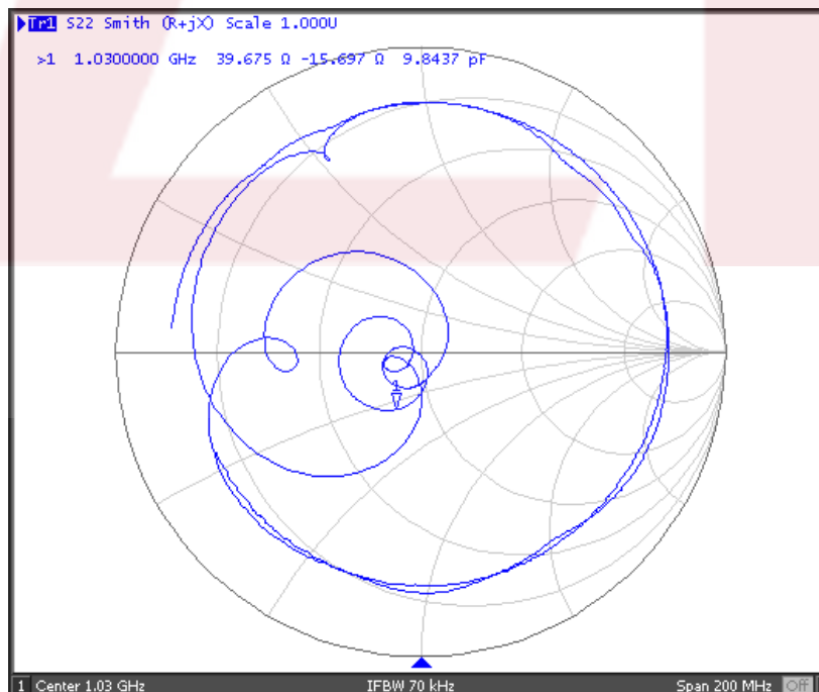
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S11 Smith Chart



S22 Smith Chart



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