



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

1030 MHz SAW Filter

Part Number: AE1030SB1177



Electronic Characteristics	Minimum	Typical	Maximum	Unit
Center Frequency	-	1030.00	-	MHz
Insertion Loss (Min)	-	2.0	2.5	dB
Insertion Loss 1025.00 – 1035.00 MHz	-	2.3	4.0	dB
Amplitude Ripple (p-p) 1025.00 – 1035.00 MHz	-	0.3	1.25	dB
1.25dB Bandwidth	12.0	18.0	20.0	MHz
Group Delay Ripple 1025.00 – 1035.00 MHz	-	10.21	30.0	MHz
Absolute Attenuation				
500 – 850.00 MHz	53.0	56.0	-	dB
850.00 – 950.00 MHz	50.0	52.0	-	dB
950.00 – 970.00 MHz	50.0	52.0	-	dB
1090.00 – 1250.00 MHz	50.0	53.0	-	dB
1250.00 – 1600.00 MHz	40.0	45.0	-	dB
Input VSWR 1025.00 – 1035.00 MHz		1.3:1	2.0:1	-

Parameters Description	Value	Unit
Package Type	SMT	
Dimensions	3.00 x 3.00 x 1.25 mm	
DC Voltage	5	V
Operating Temperature	-40 to +125	°C
Storage Temperature	-40 to +125	°C
RF Power Dissipation	21	dBm
Test Temperature	25°C to +2°C	
Terminating Source Impedance	50Ω	
Terminating Load Impedance	50Ω	



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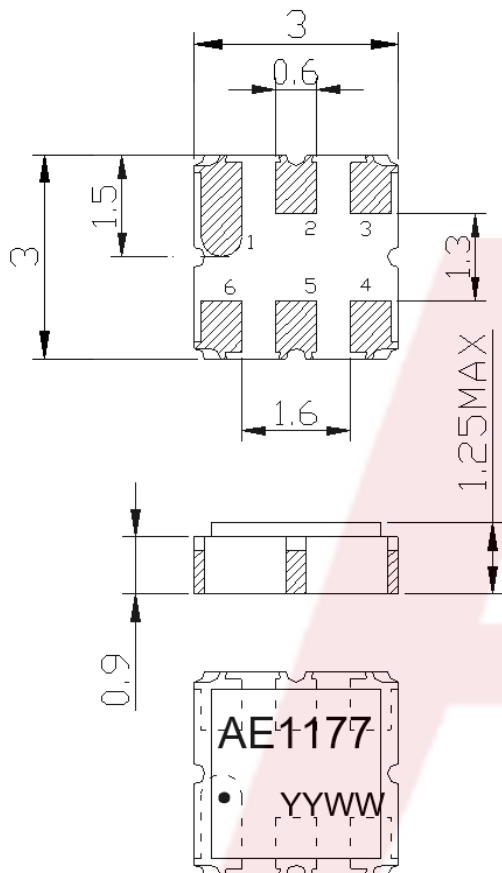
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Outline Drawing:



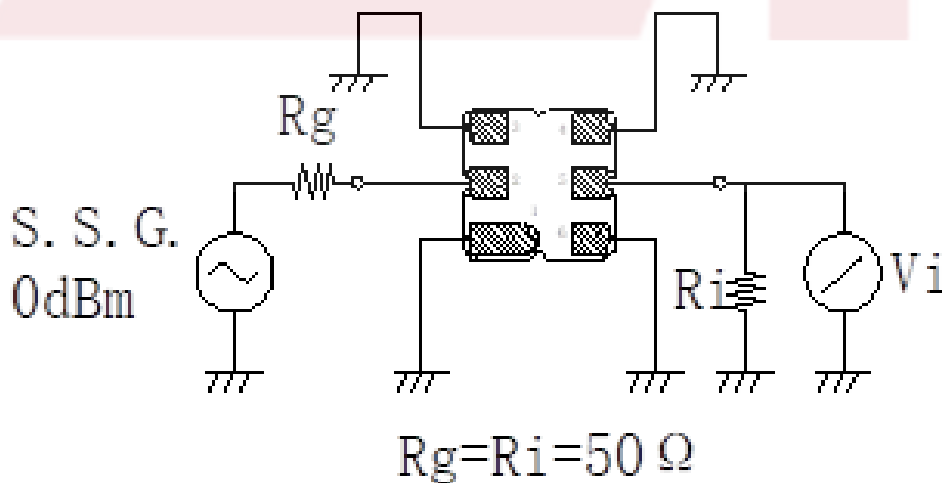
Pin Configuration

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

Marking Description

●	Pin 1
YYWW	Year Code & Week Code

Testing Environment:



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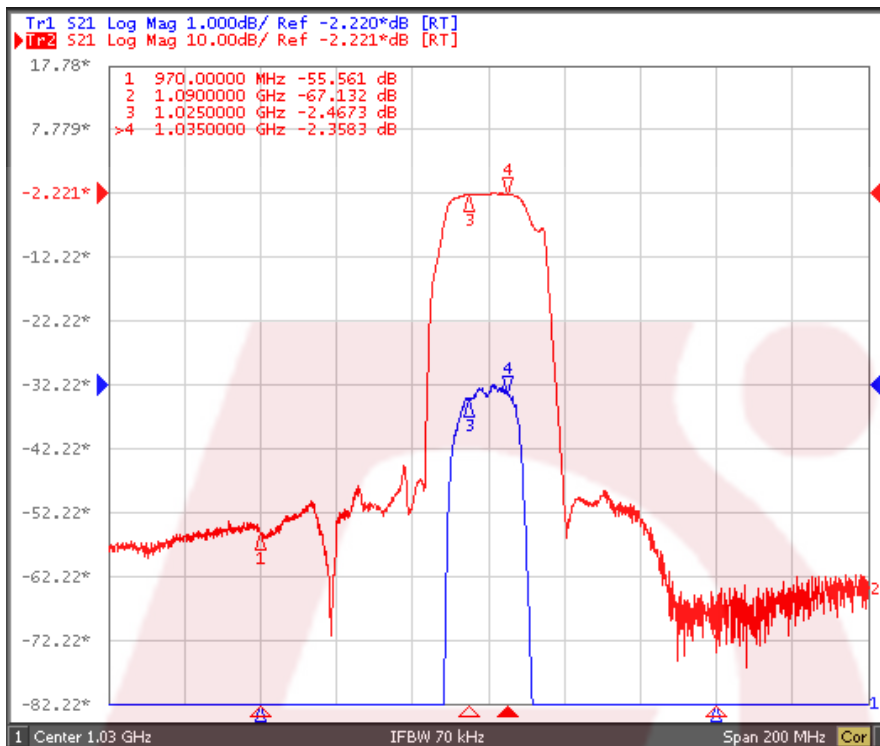
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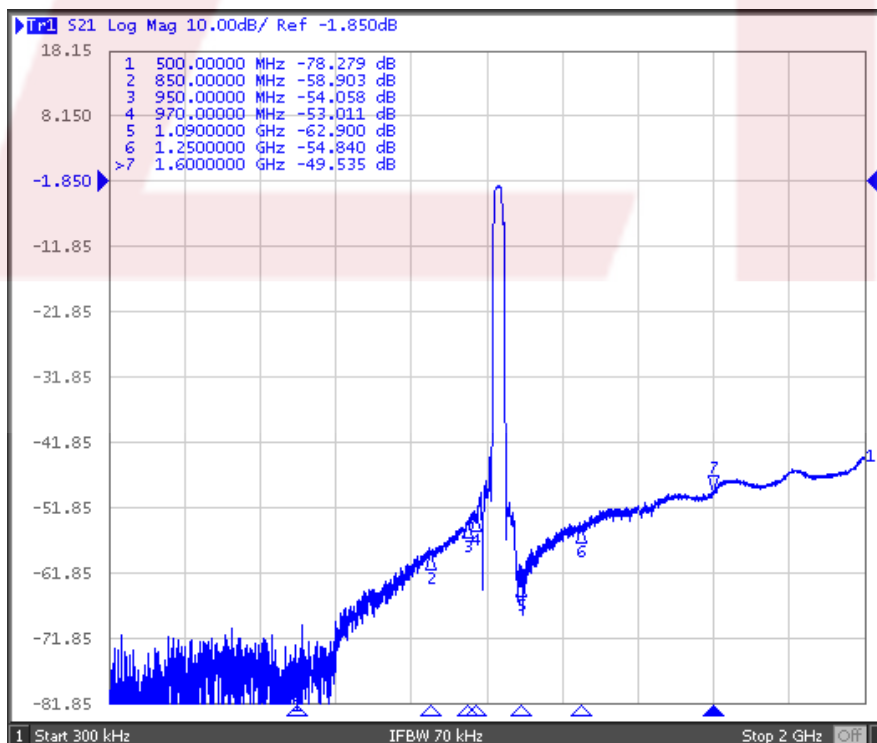
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Response Plot:



Response Plot (Wideband):



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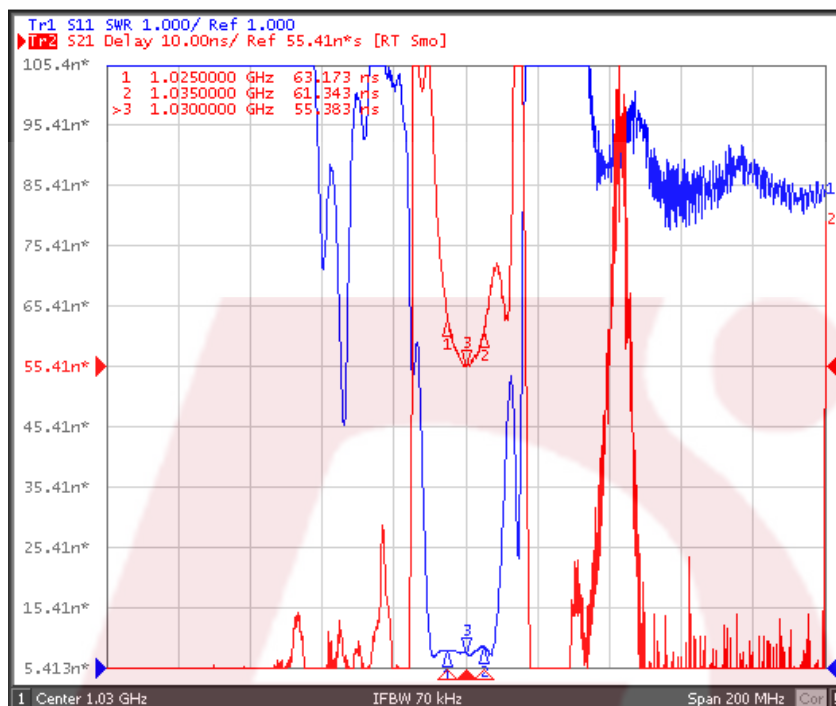
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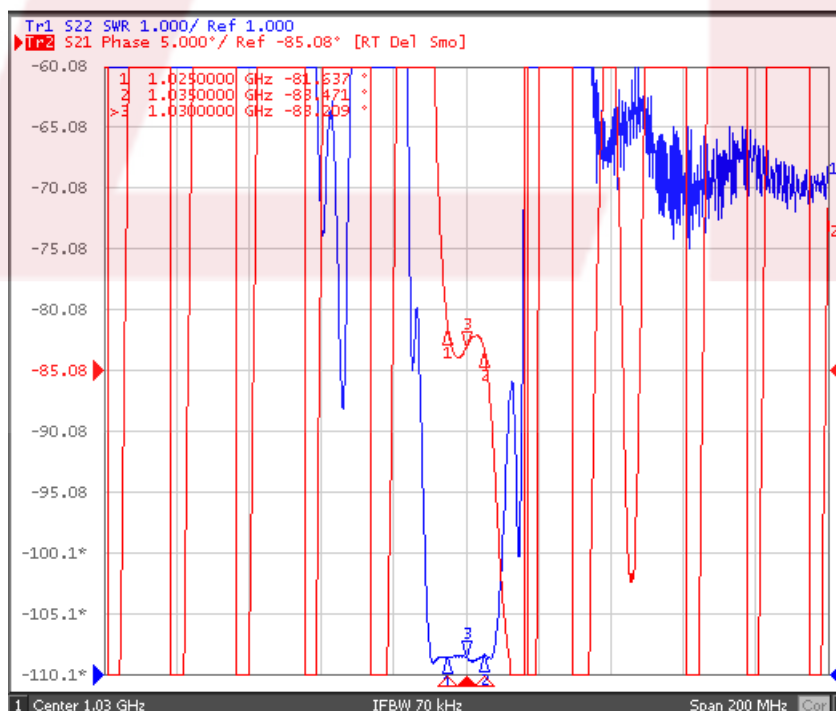
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Delay Ripple & S11 VSWR



Phase Linearity & S22 VSWR



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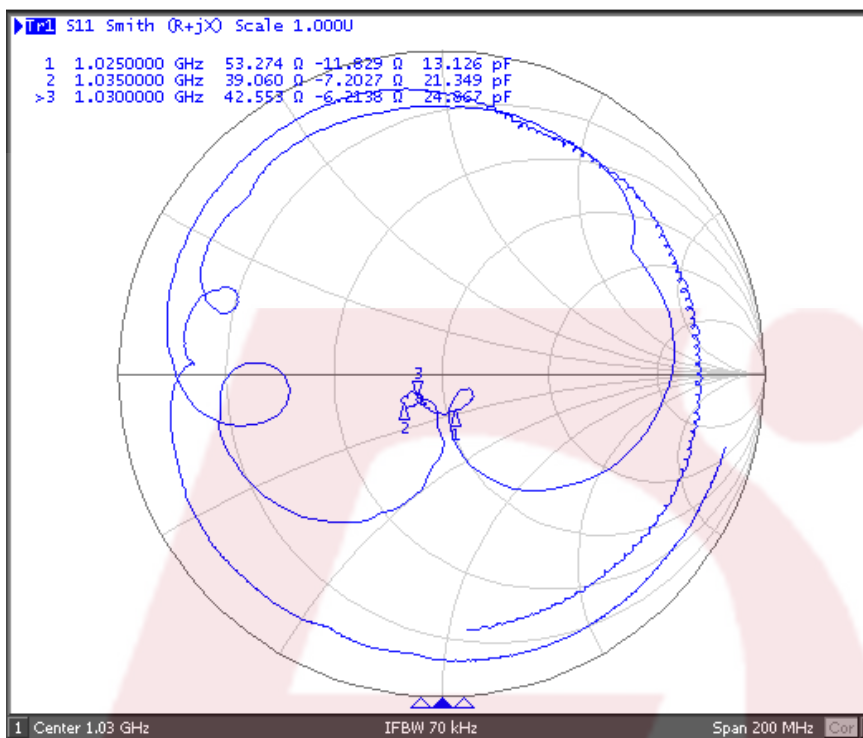
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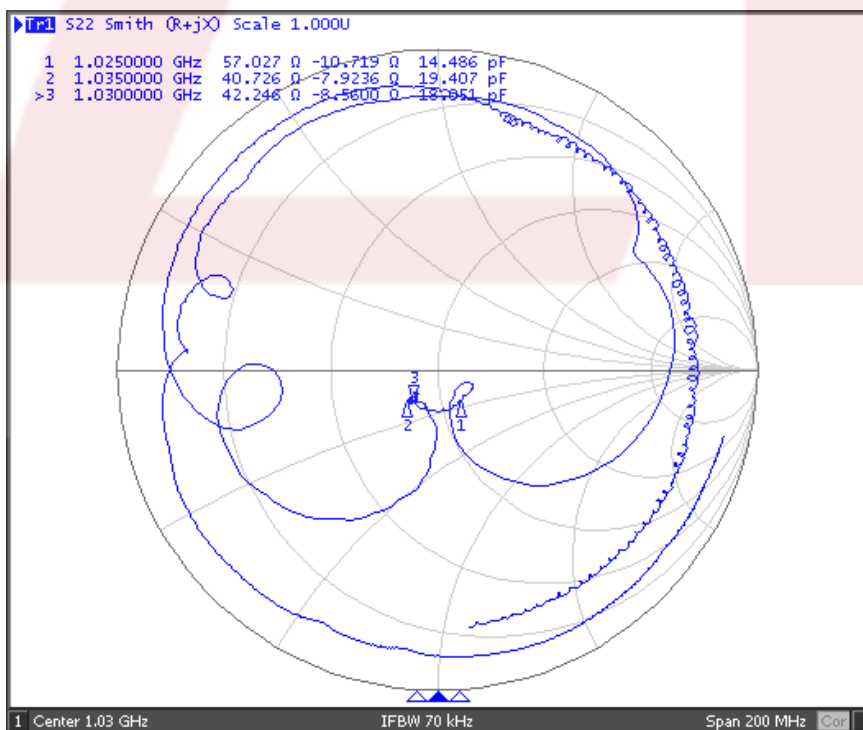
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S11 Smith Chart



S22 Smith Chart



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