

CRYSTEK
MICROWAVE
A DIVISION OF CRYSTEK CORPORATION

SAW Band Pass Filter
50 Ω SMA



New
SAW Filters



Part Number: CBPFS-0881
Center Frequency 881.5 MHz
Band Pass Width 25 MHz

Features:

- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:

- Test Equipment
- Lab Use

Maximum Ratings:

- +36dBm (4 Watts)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

Crystek's new line of SAW Band Pass Filters are designed in a rugged SMA housing. This filter line has excellent out-of-band rejection. Designed for Test Equipment and General Lab Use.

Product Control:

Crystek Part Number:	CBPFS-0881	Release Date:	18-Aug-11
Revision Level:	C	Responsible:	K. Piotrowicz



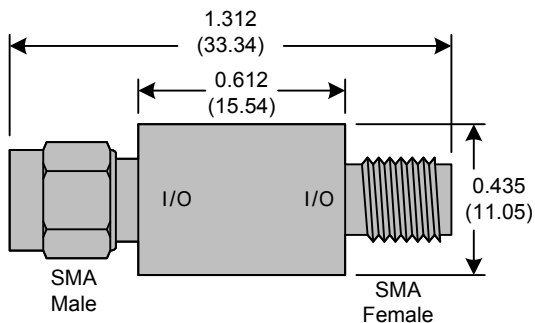
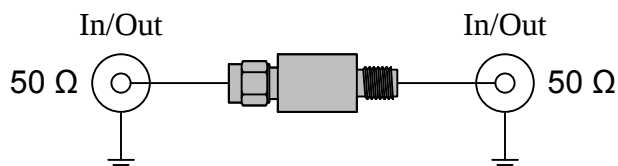
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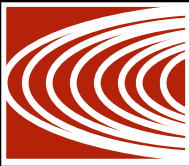
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PHONE: 239-561-3311 • 800-237-3061
FAX: 239-561-1025 • WWW.CRYSTEK.COM



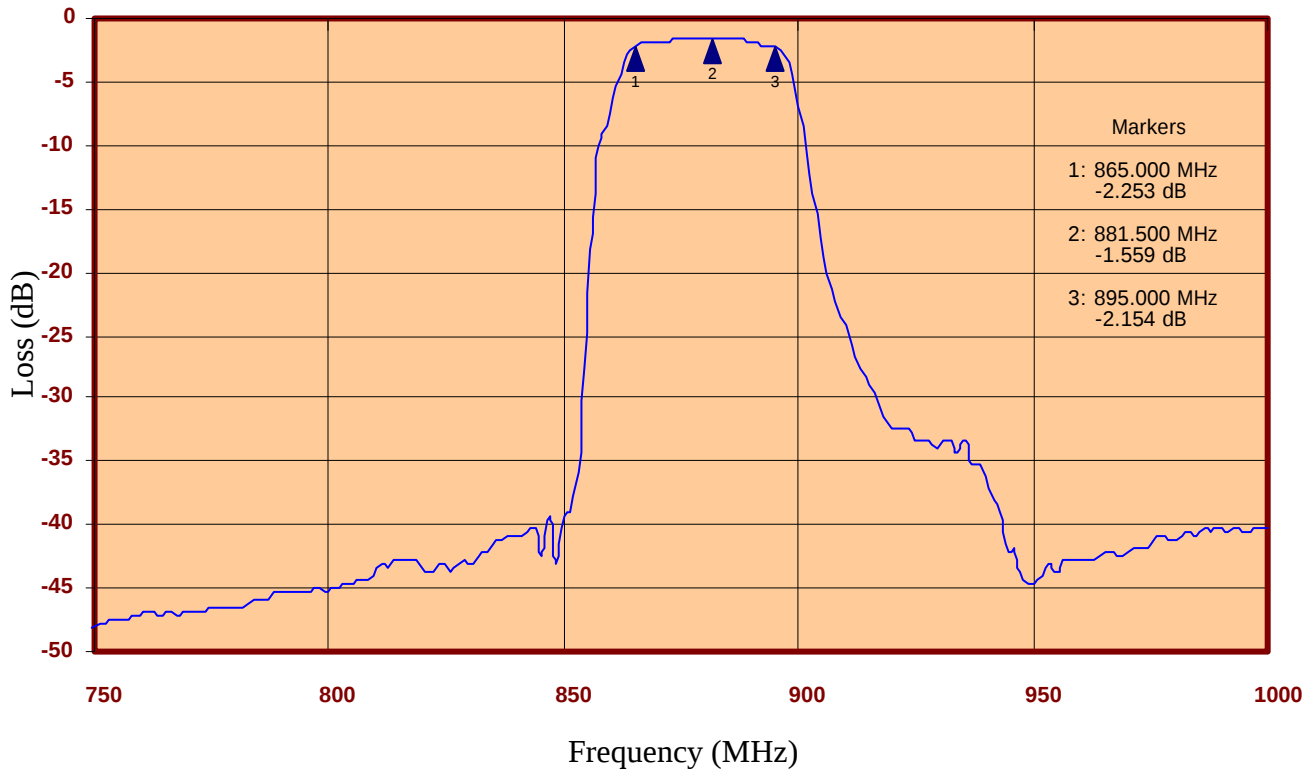
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Center Frequency:		881.500		MHz
Pass Bandwidth:		25		MHz
Insertion Loss:		2.2		dB
Amplitude Ripple:		0.7		dB
Attenuation: DC – 779 MHz		55		dB
Attenuation: 779 – 849 MHz		50		dB
Attenuation: 914 – 951 MHz		28		dB
Attenuation: 951 – 1049 MHz		50		dB
Attenuation: 1049 – 2000 MHz		45		dB
VSWR:			2:1	
Impedance:		50		Ω
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-40		+85	$^{\circ}\text{C}$

Schematic

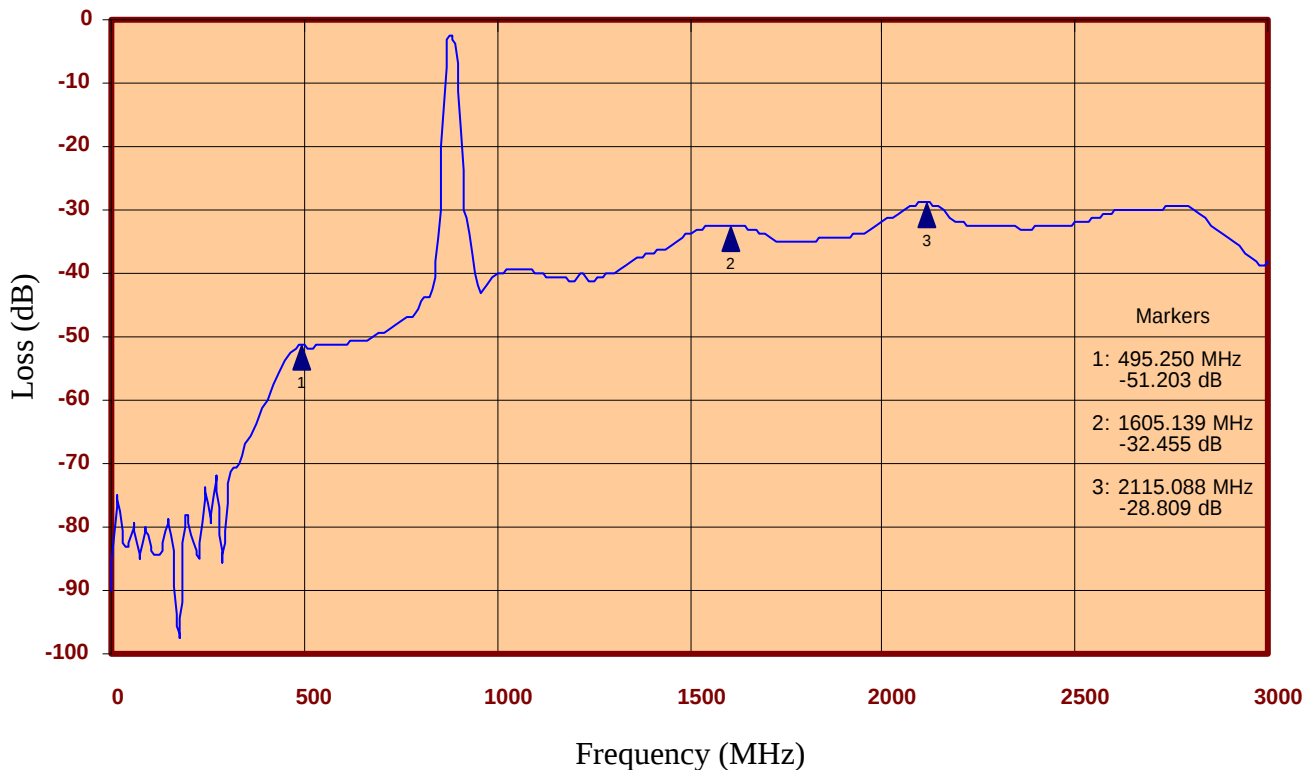


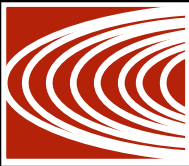


Typical Frequency Characteristics [close in]

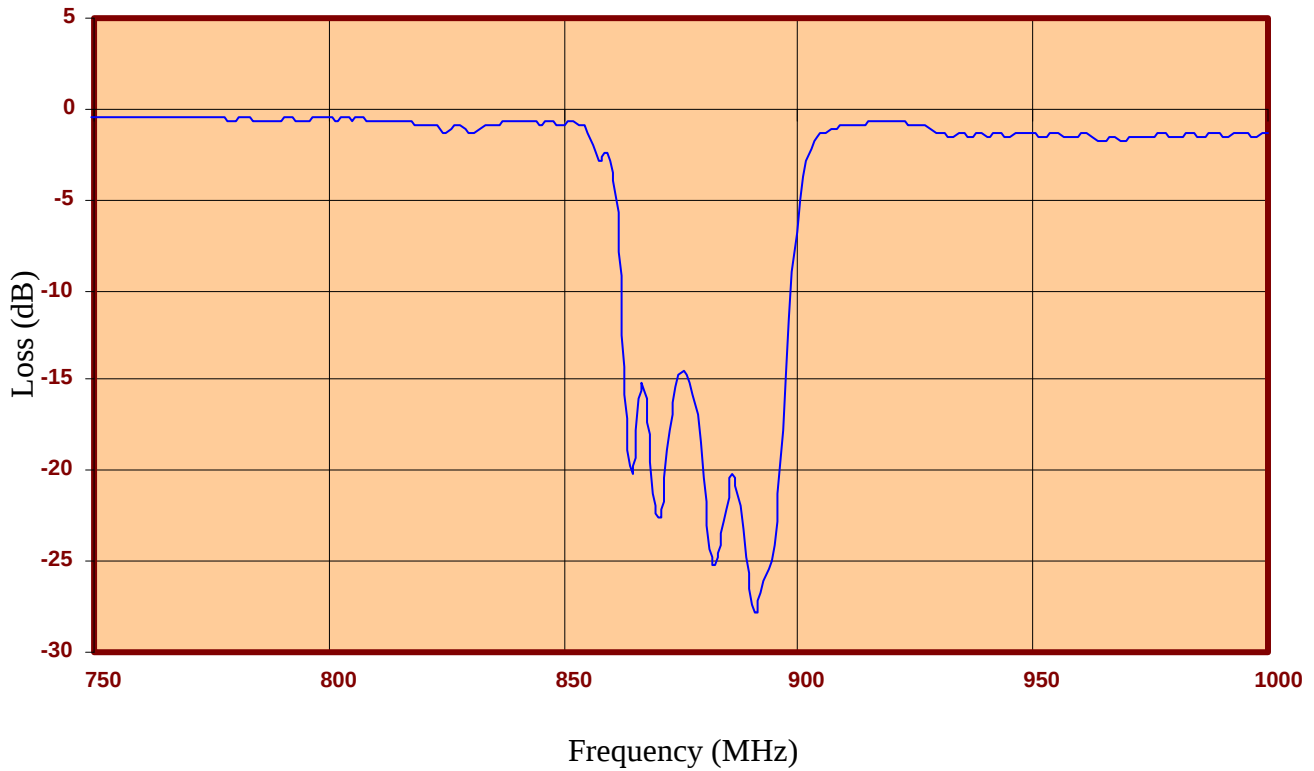


Typical Frequency Characteristics [full span]

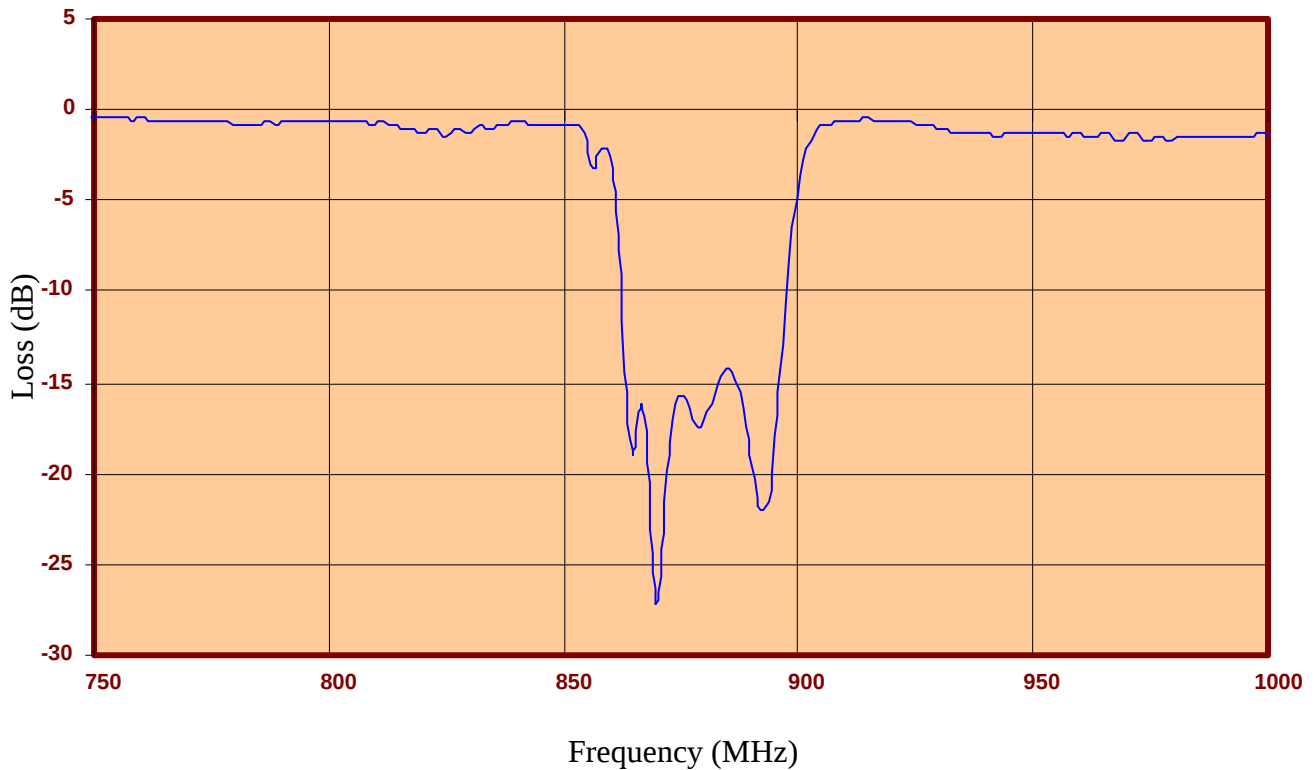


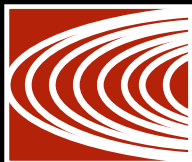


Male Side Return Loss



Female Side Return Loss





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SAW Band Pass Filter
50 Ω SMA



New
SAW Filters



Part Number: CBPFS-0902
Center Frequency 902 MHz
Band Pass Width 25 MHz

Features:

- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:

- Test Equipment
- Lab Use

Maximum Ratings:

- +36dBm (4 Watts)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

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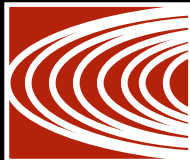
Product Control:

Crystek Part Number:	CBPFS-0902	Release Date:	16-May-11
Revision Level:	B	Responsible:	K. Piotrowicz



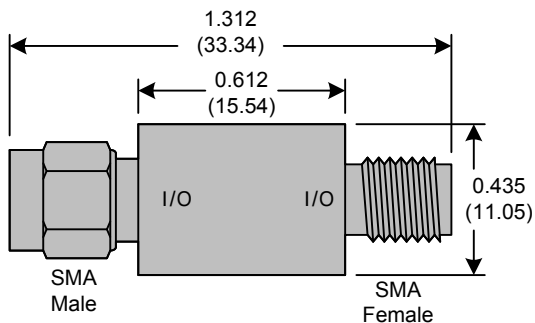
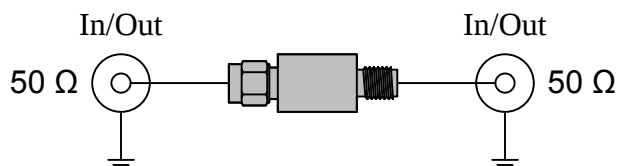
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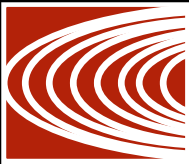
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FAX: 239-561-1025 • WWW.CRYSTEK.COM



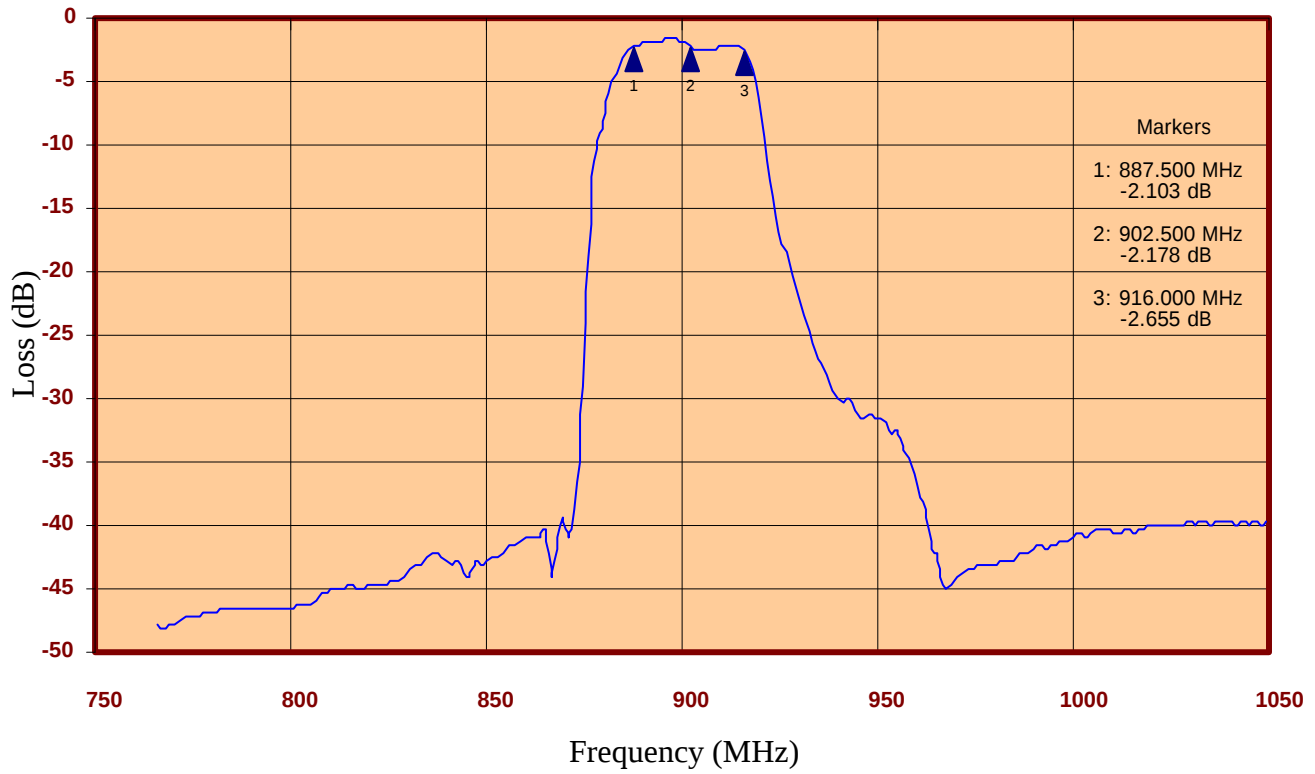
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Center Frequency:		902.500		MHz
Pass Bandwidth:		25		MHz
Insertion Loss:		2.0		dB
Amplitude Ripple:		0.6		dB
Attenuation: DC – 860 MHz		48		dB
Attenuation: 925 – 935 MHz		19		dB
Attenuation: 945 – 980 MHz		30		dB
Attenuation: 980 – 1200 MHz		48		dB
Attenuation: 1200 – 3000 MHz		28		dB
VSWR:			2:1	
Impedance:		50		Ω
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-40		+85	$^{\circ}\text{C}$

Schematic

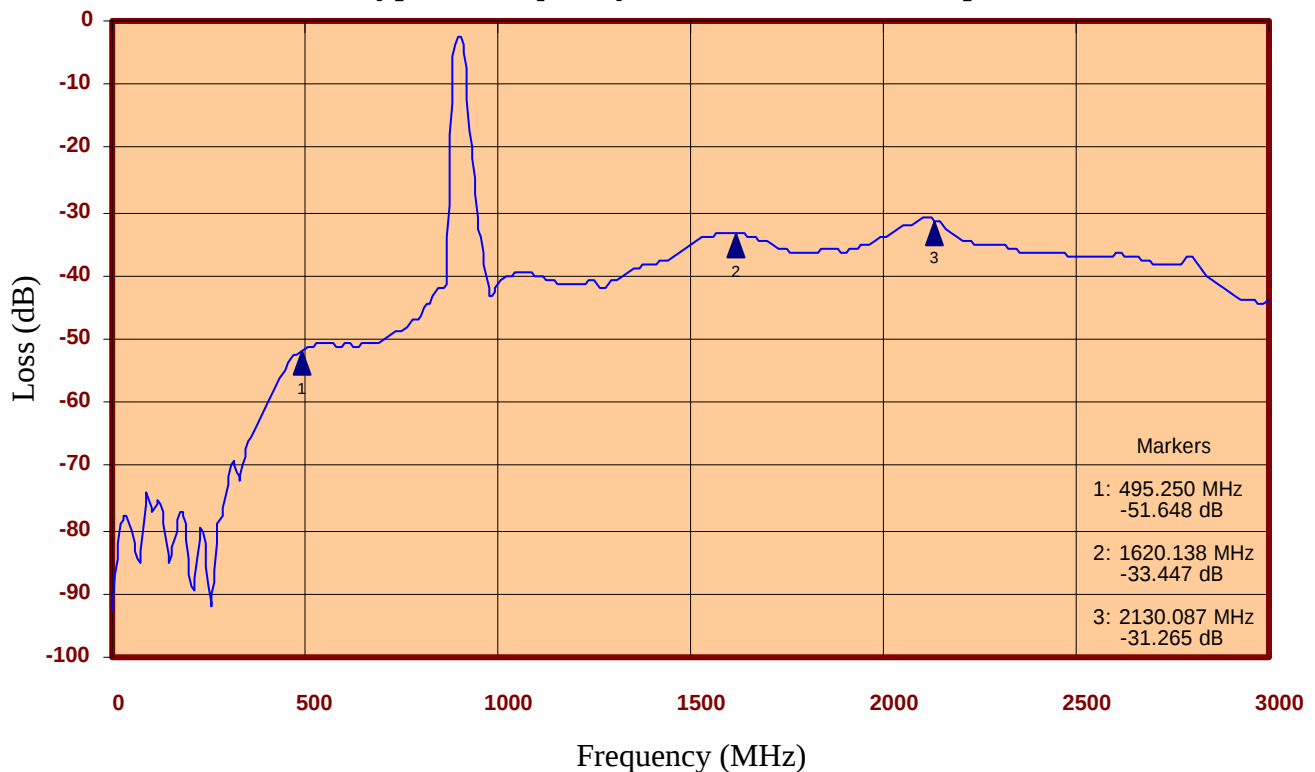


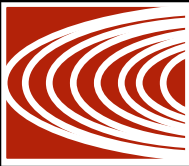


Typical Frequency Characteristics [close in]

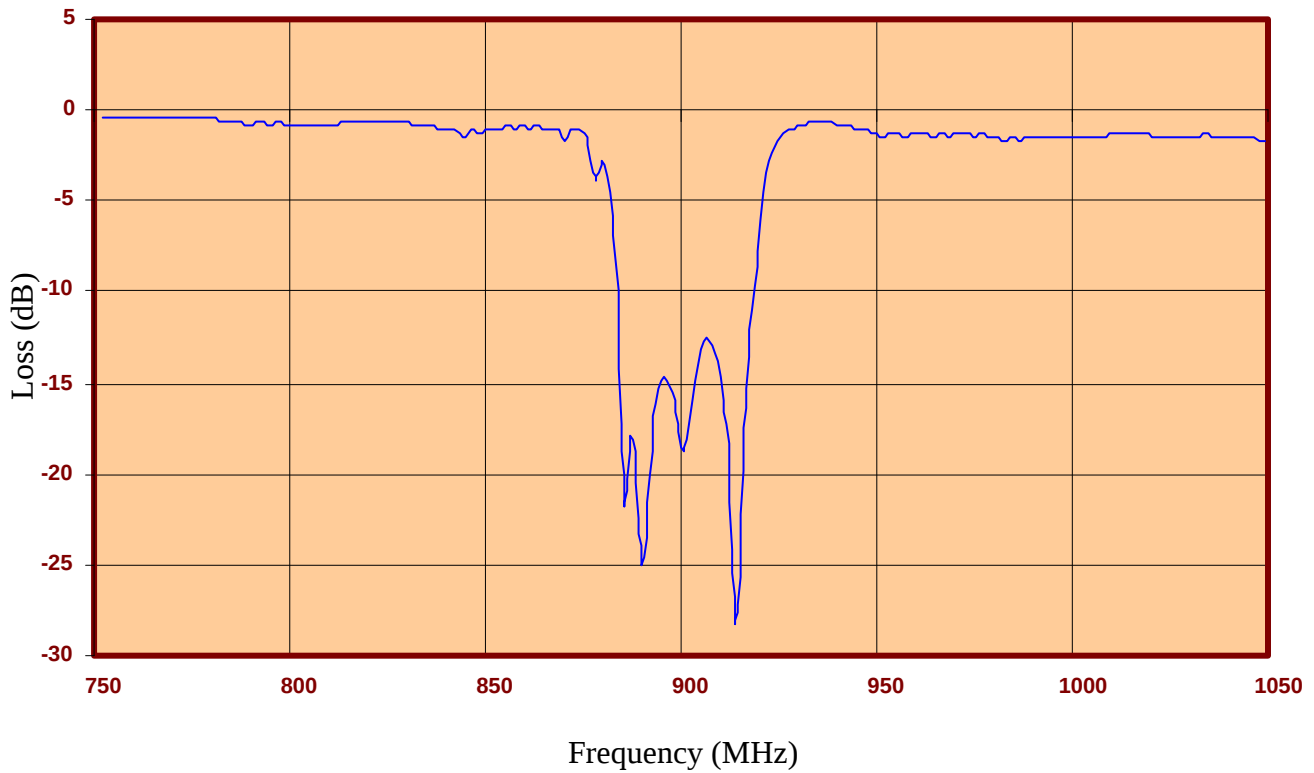


Typical Frequency Characteristics [full span]

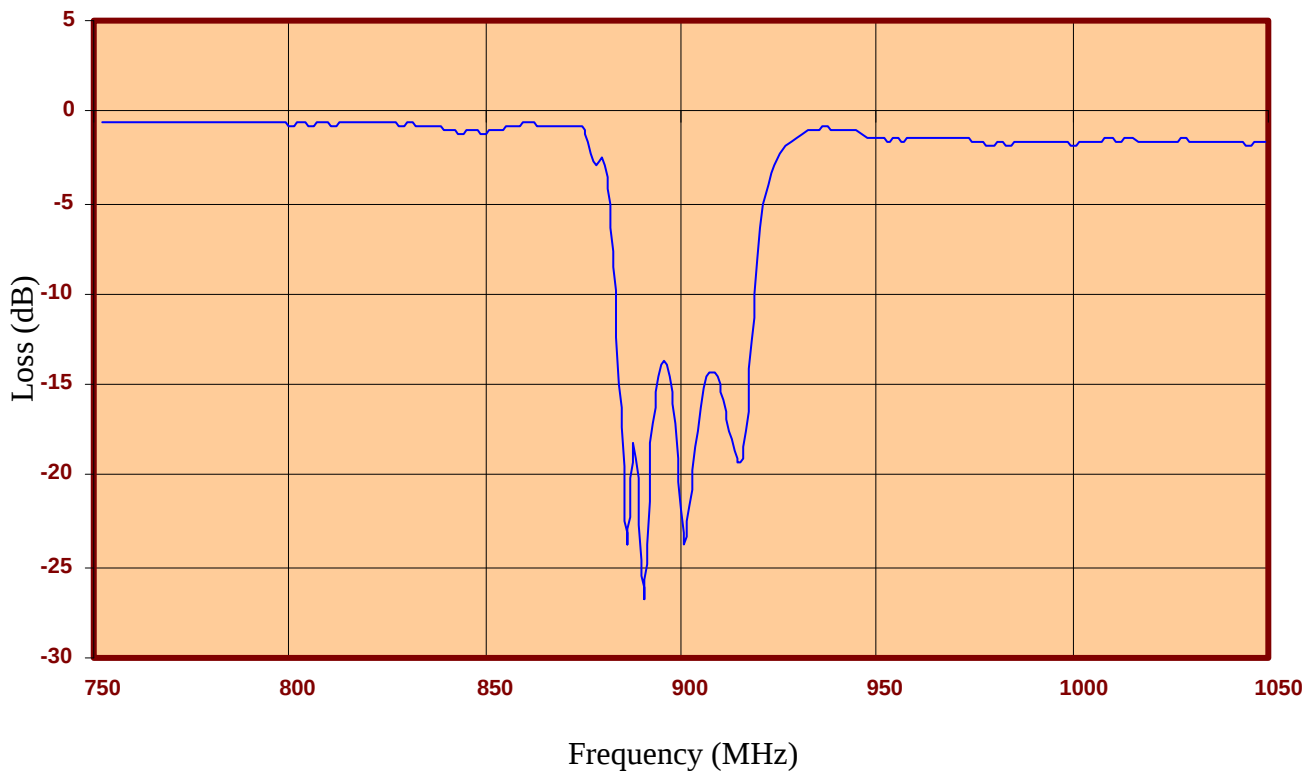


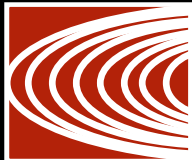


Male Side Return Loss



Female Side Return Loss





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SAW Band Pass Filter
50 Ω SMA



New
SAW Filters



Part Number: CBPFS-0915
Center Frequency 915 MHz
Band Pass Width 26 MHz

Features:

- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:

- Test Equipment
- Lab Use

Maximum Ratings:

- +36dBm (4 Watts)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

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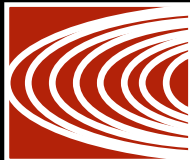
Product Control:

Crystek Part Number:	CBPFS-0915	Release Date:	16-May-11
Revision Level:	B	Responsible:	K. Piotrowicz



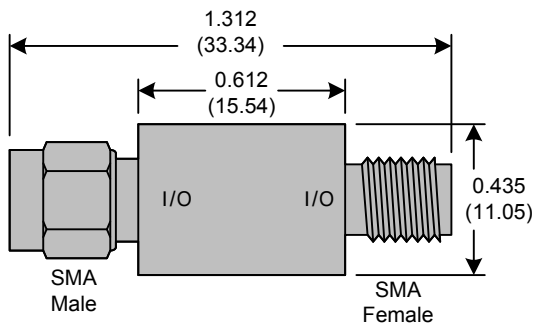
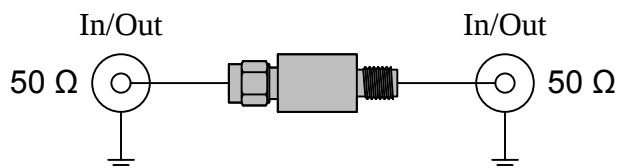
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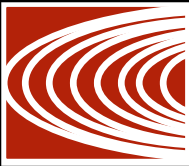
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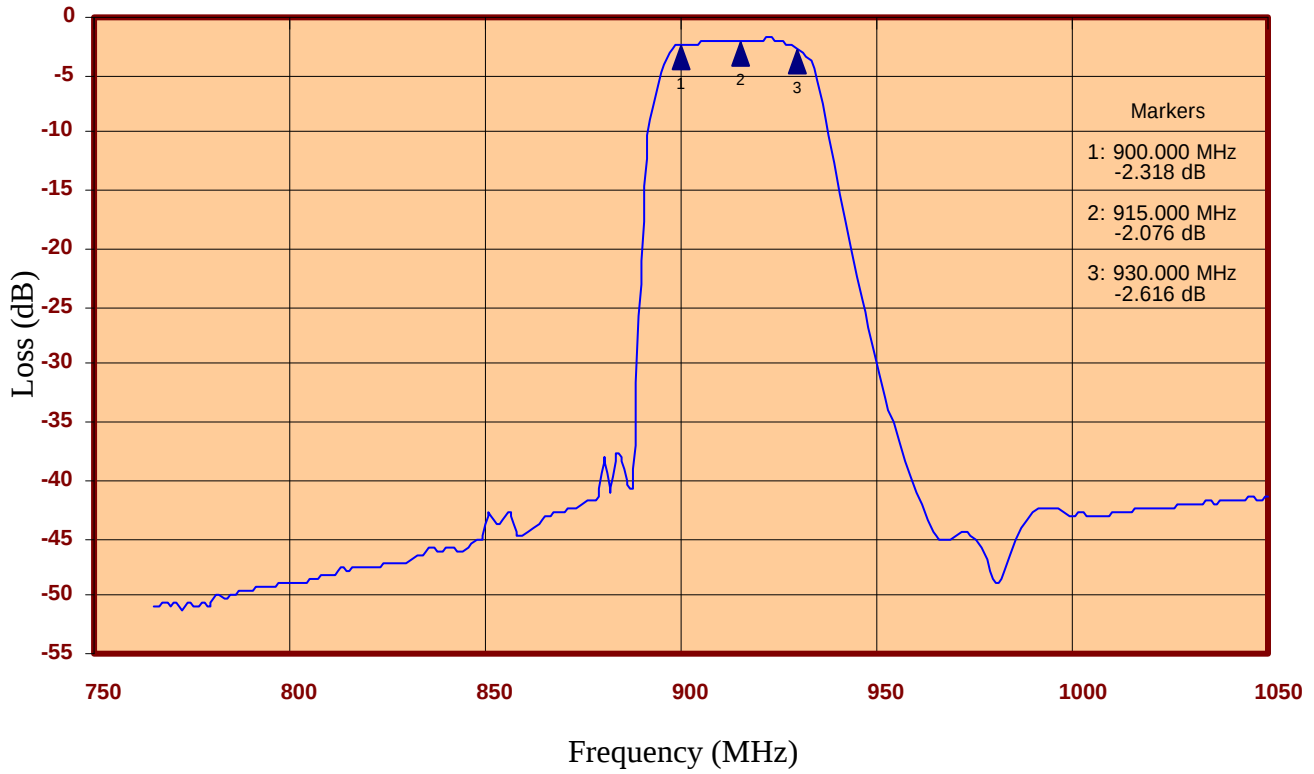
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Center Frequency:		915		MHz
Pass Bandwidth:		26		MHz
Insertion Loss:		2.2		dB
Amplitude Ripple:		0.6		dB
Attenuation: DC – 800 MHz		63		dB
Attenuation: 800 – 880 MHz		48		dB
Attenuation: 960 – 1080 MHz		39		dB
Attenuation: 1080 – 1500 MHz		65		dB
Attenuation: 1500 – 3000 MHz		28		dB
VSWR:		1.6	2.3	
Impedance:		50		Ω
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-40		+85	$^{\circ}\text{C}$

Schematic

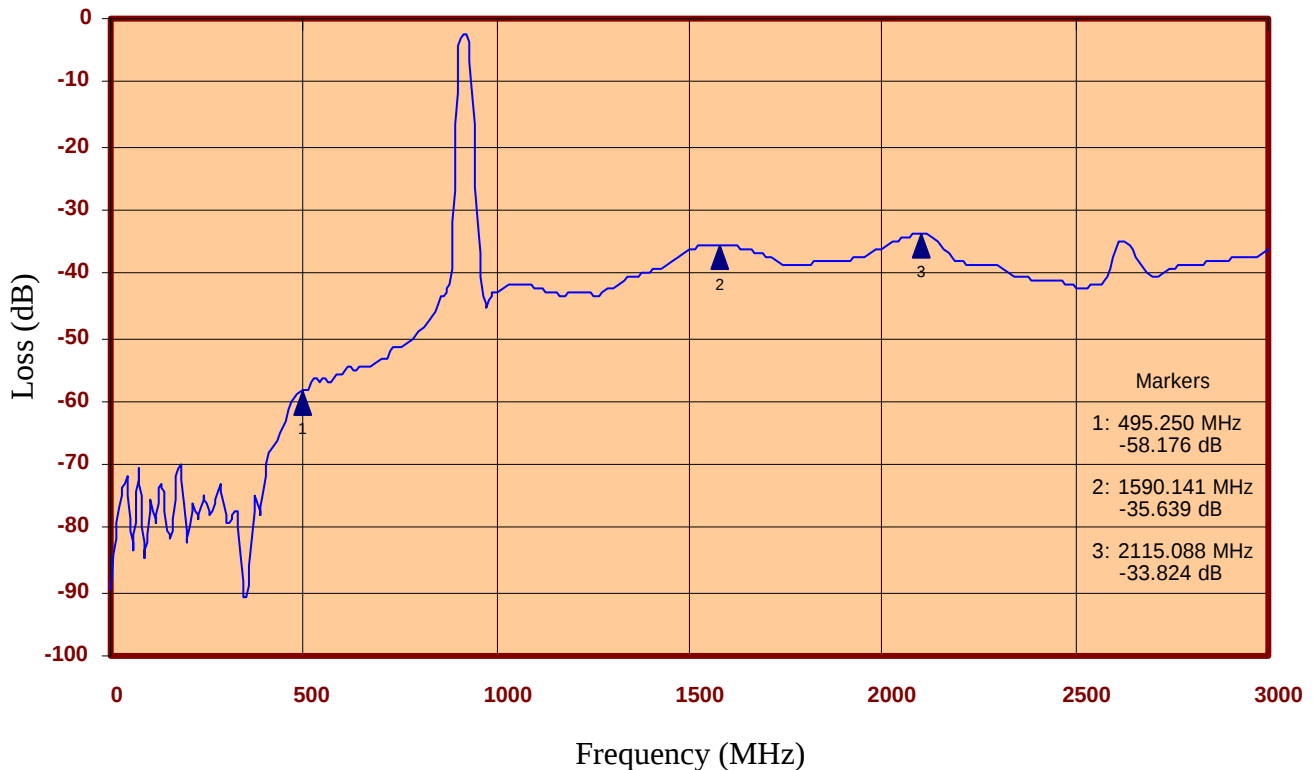


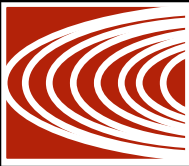


Typical Frequency Characteristics [close in]

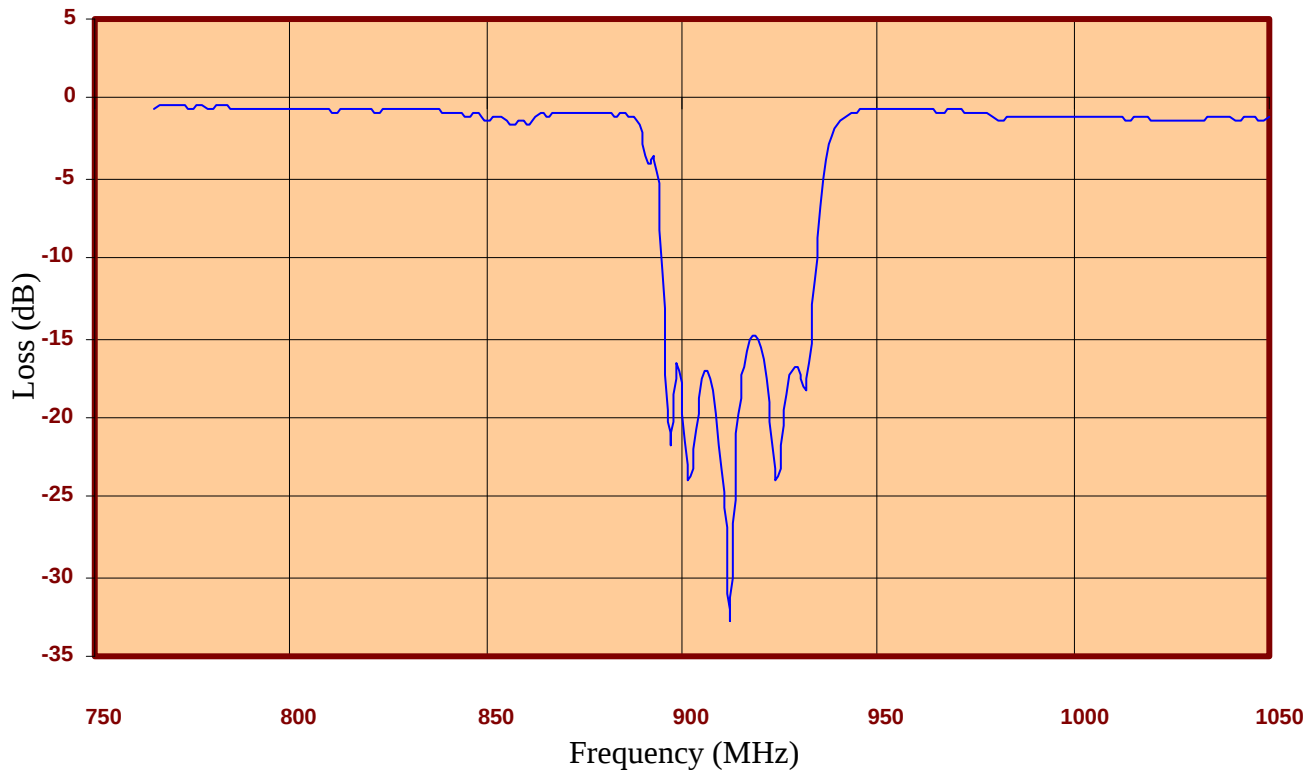


Typical Frequency Characteristics [full span]

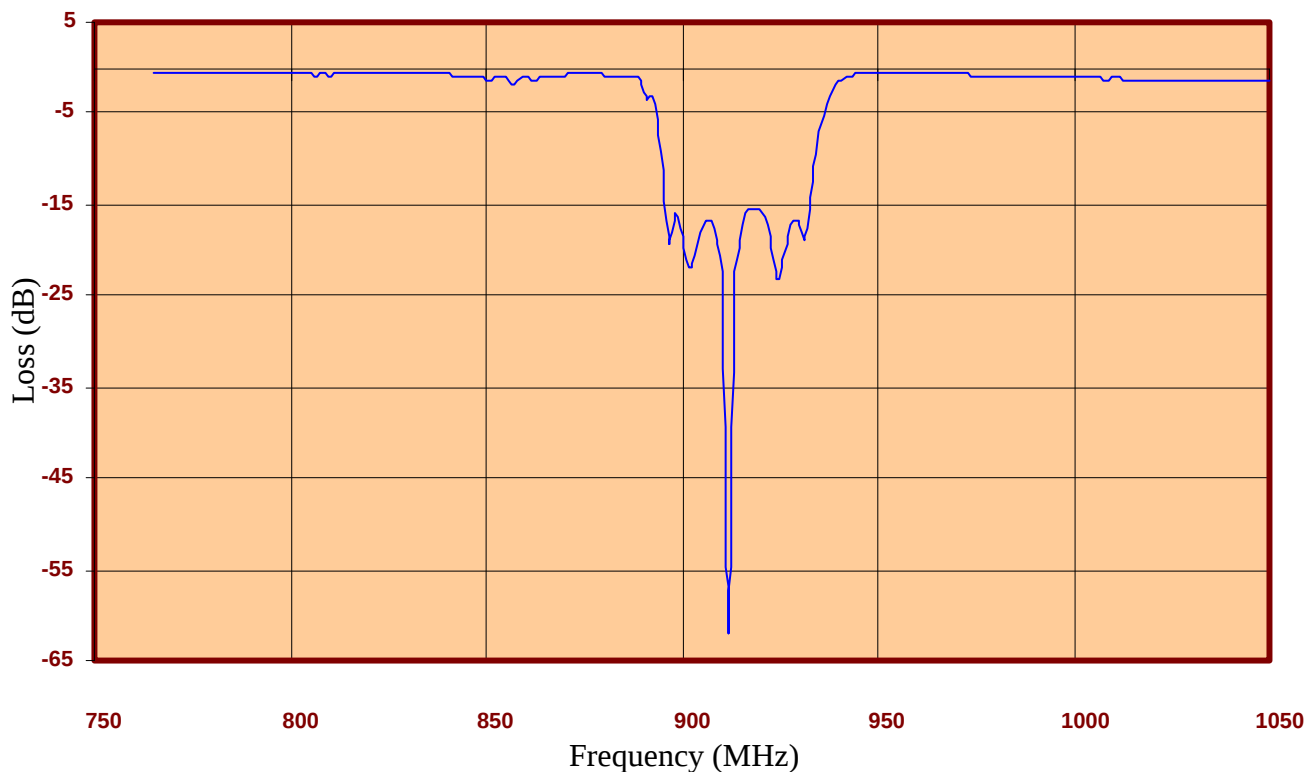


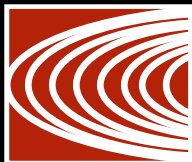


Male Side Return Loss



Female Side Return Loss





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SAW Band Pass Filter
50 Ω SMA



New
SAW Filters



Part Number: CBPFS-1880
Center Frequency 1880 MHz
Band Pass Width 60 MHz

Features:

- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:

- Test Equipment
- Lab Use

Maximum Ratings:

- +36dBm (4 Watts)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

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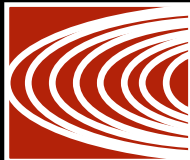
Product Control:

Crystek Part Number:	CBPFS-1880	Release Date:	18-Aug-11
Revision Level:	C	Responsible:	K. Piotrowicz



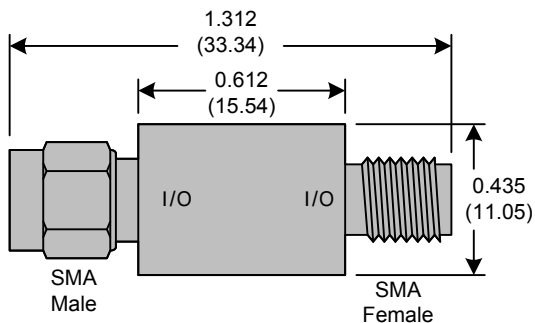
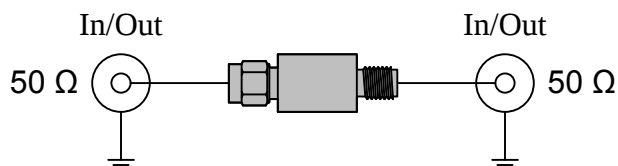
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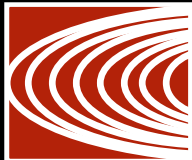
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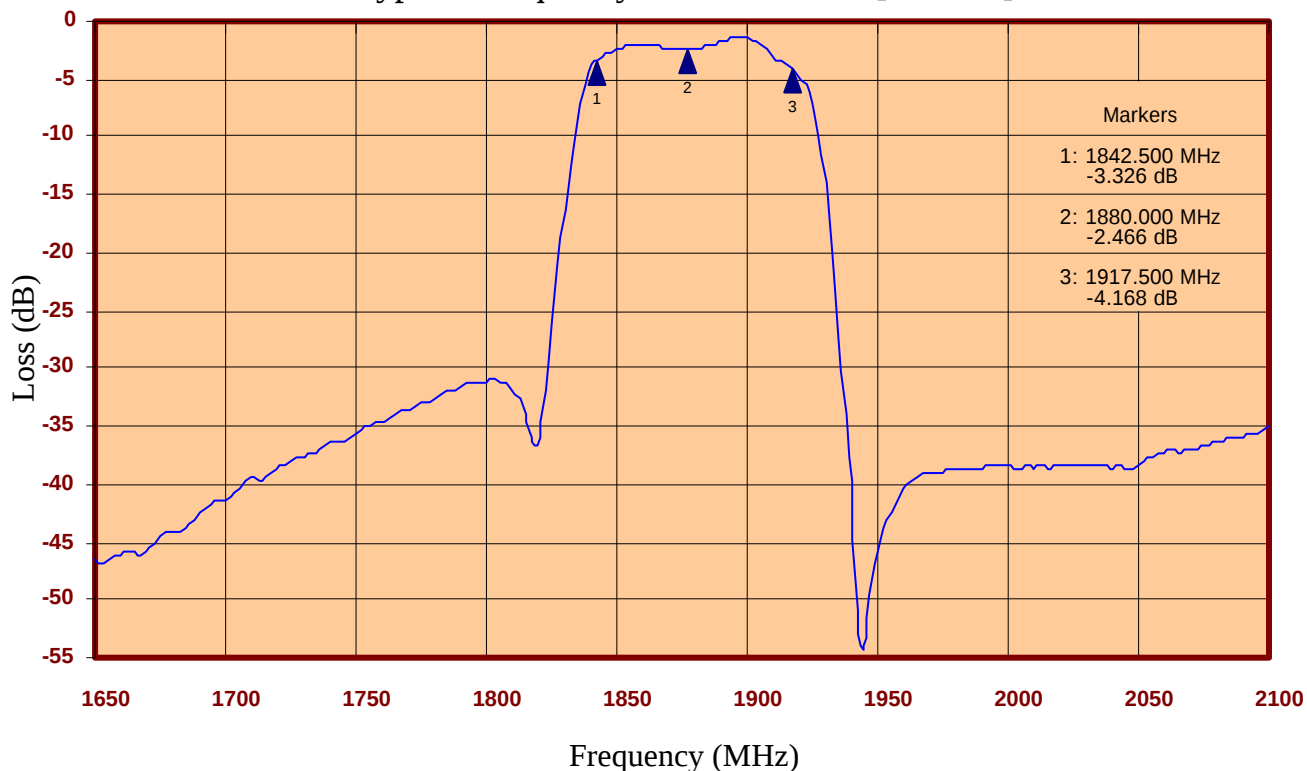
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Center Frequency:		1880.000		MHz
Pass Bandwidth:		60		MHz
Insertion Loss:		3.5		dB
Amplitude Ripple:		1.0		dB
Attenuation: DC – 1660 MHz		30		dB
Attenuation: 1660 – 1721 MHz		32.5		dB
Attenuation: 1721 – 1800 MHz		37		dB
Attenuation: 1930 – 1990 MHz		12		dB
Attenuation: 2000 – 2040 MHz		39		dB
Attenuation: 2040 – 2080 MHz		36		dB
Attenuation: 3700 – 3820 MHz		31		dB
VSWR:			2:1	
Impedance:		50		Ω
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-40		+85	$^{\circ}\text{C}$

Schematic

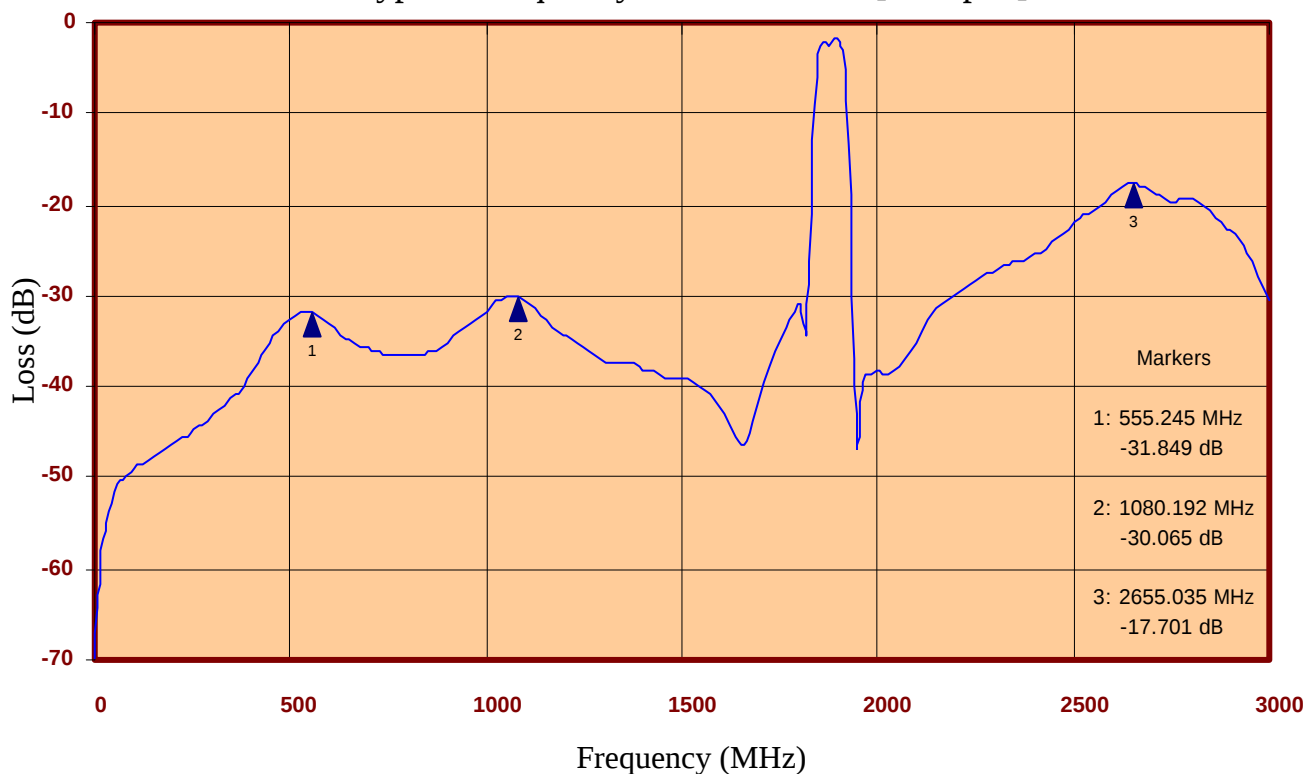


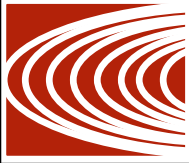


Typical Frequency Characteristics [close in]

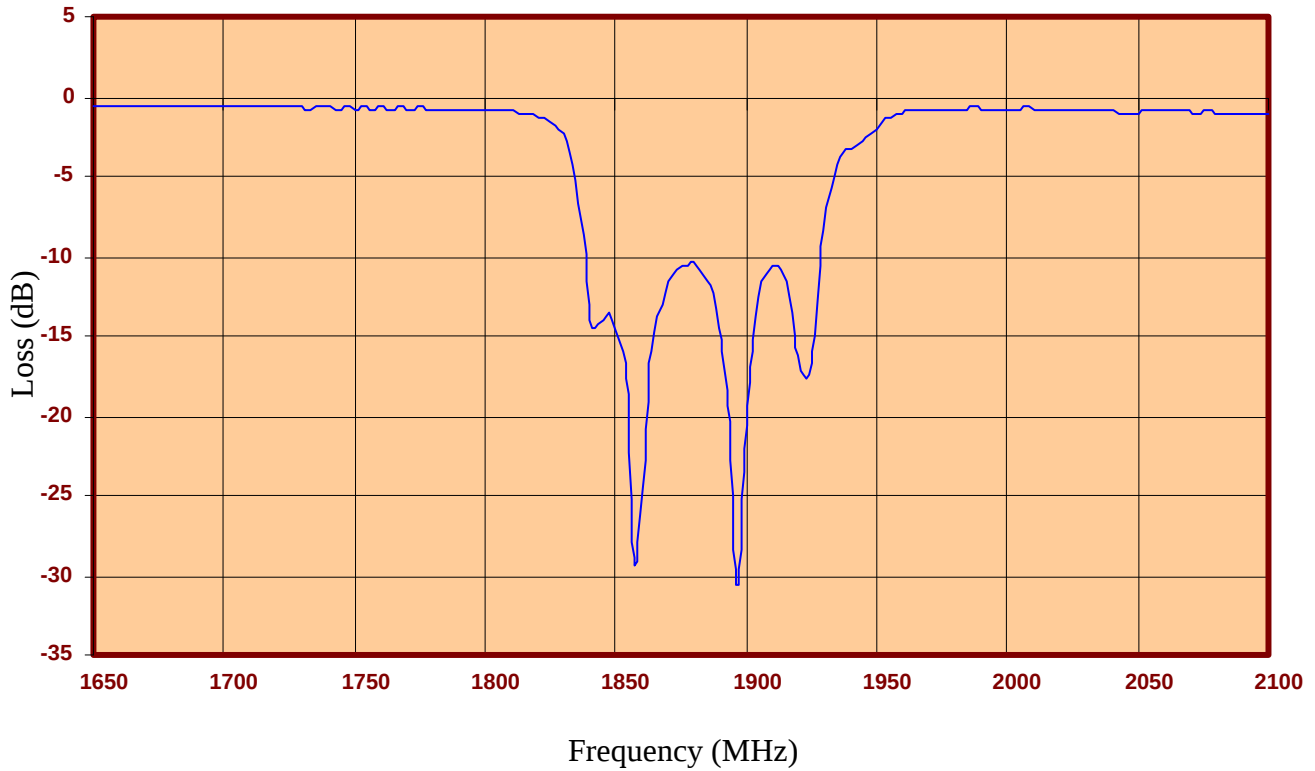


Typical Frequency Characteristics [full span]

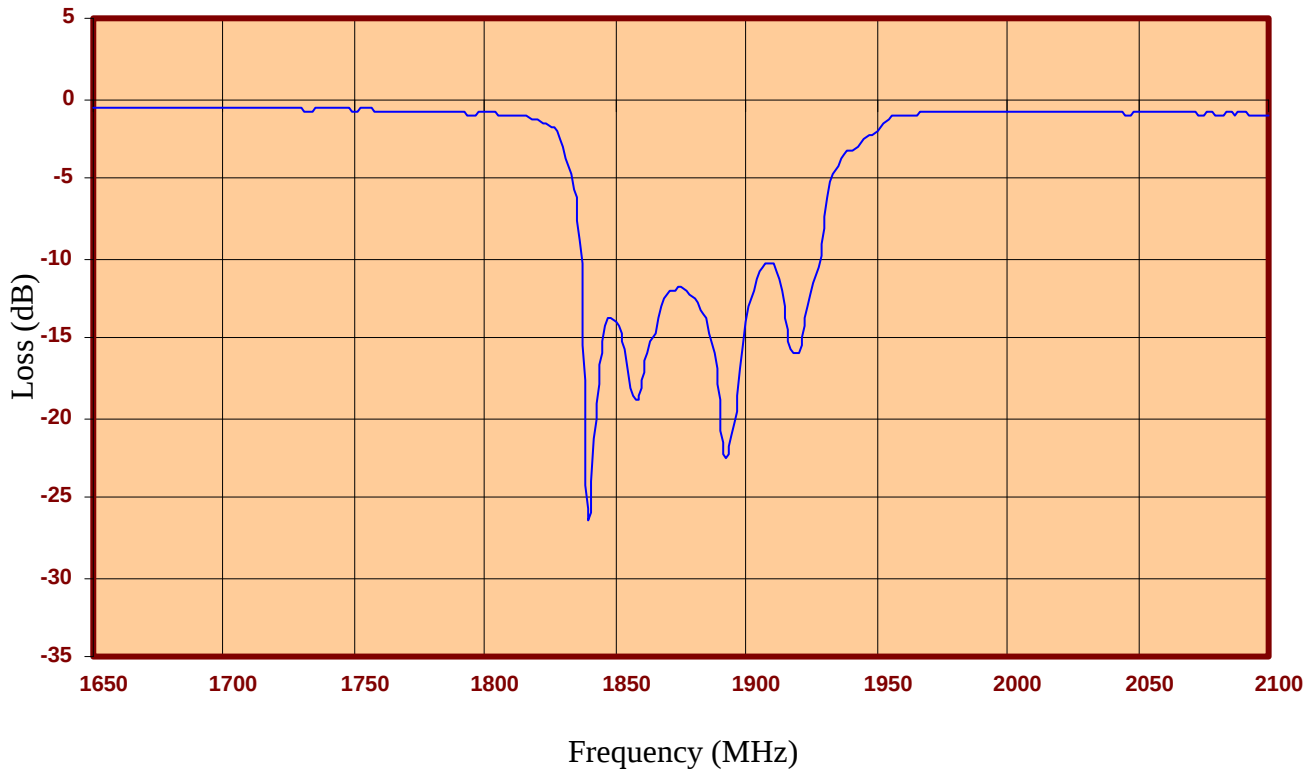


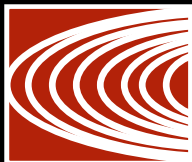


Male Side Return Loss



Female Side Return Loss





New
SAW Filters



Part Number: CBPFS-1960
Center Frequency 1960 MHz
Band Pass Width 60 MHz

Features:

- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:

- Test Equipment
- Lab Use

Maximum Ratings:

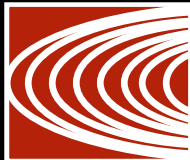
- +36dBm (4 Watts)
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

Crystek's new line of SAW Band Pass Filters are designed in a rugged SMA housing. This filter line has excellent out-of-band rejection. Designed for Test Equipment and General Lab Use.

Product Control:

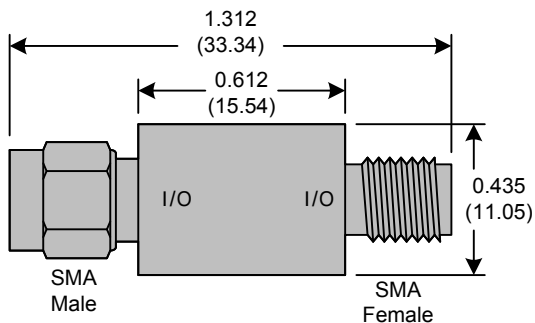
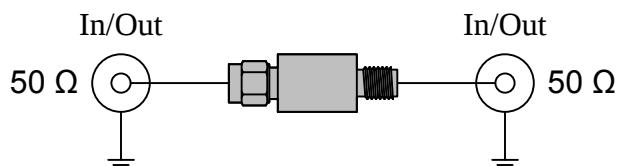
Crystek Part Number:	CBPFS-1960	Release Date:	17-Aug-11
Revision Level:	C	Responsible:	K. Piotrowicz

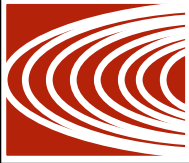




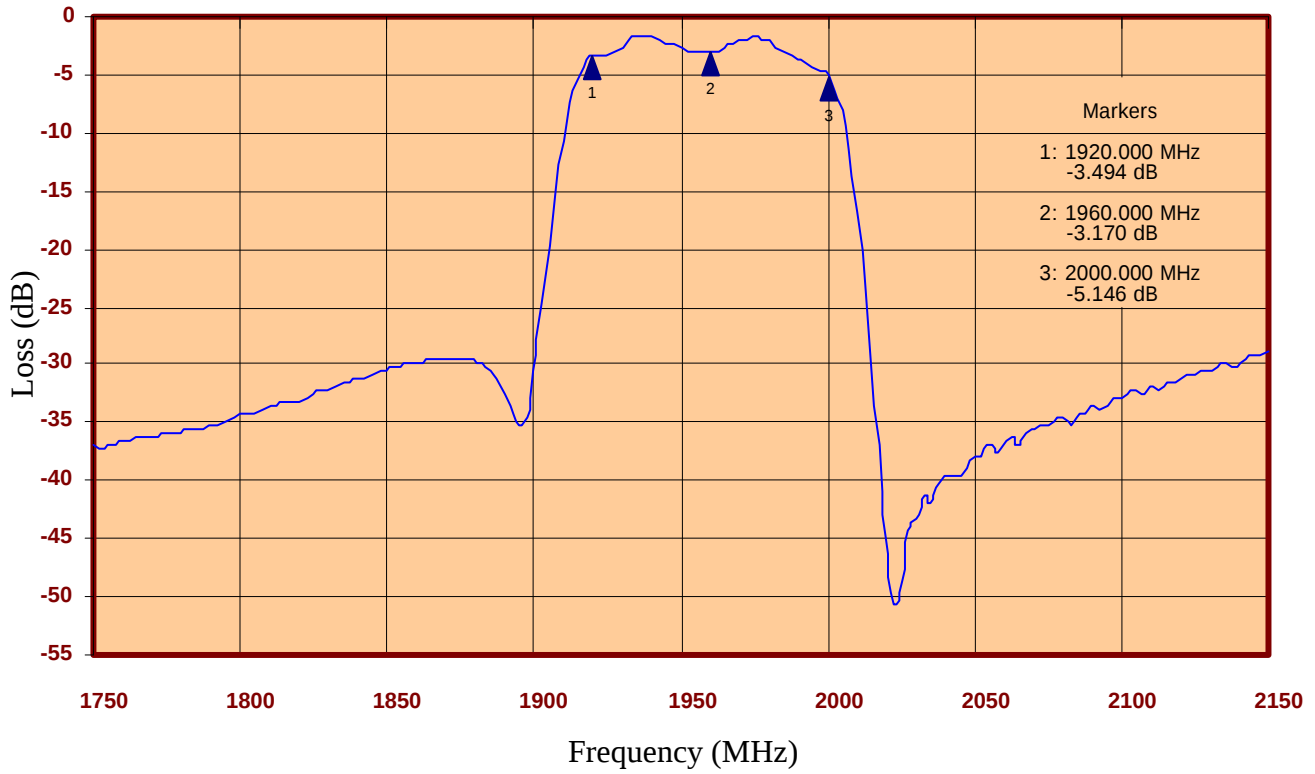
PERFORMANCE SPECIFICATION	MIN	TYP	MAX	UNITS
Center Frequency:		1960.000		MHz
Pass Bandwidth:		60		MHz
Insertion Loss:		3.0		dB
Amplitude Ripple:		0.8		dB
Attenuation: DC – 1850 MHz		30		dB
Attenuation: 1850 – 1910 MHz		13		dB
Attenuation: 2010 – 2040 MHz		8.5		dB
Attenuation: 2040 – 2070 MHz		42		dB
Attenuation: 2070 – 5000 MHz		32		dB
VSWR:			2:1	
Impedance:		50		Ω
Operating Temperature Range:	-40		+85	$^{\circ}\text{C}$
Storage Temperature Range:	-40		+85	$^{\circ}\text{C}$

Schematic

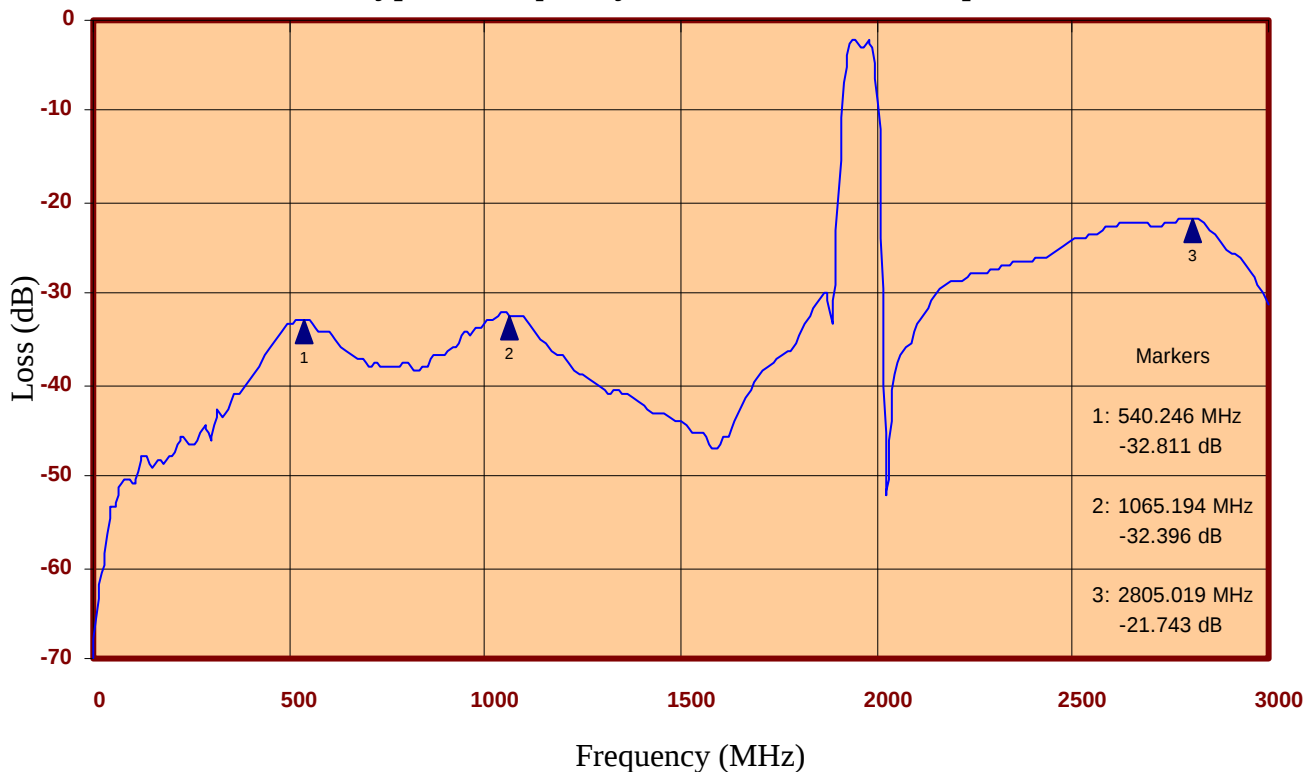


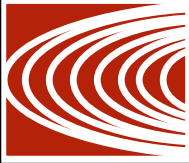


Typical Frequency Characteristics [close in]

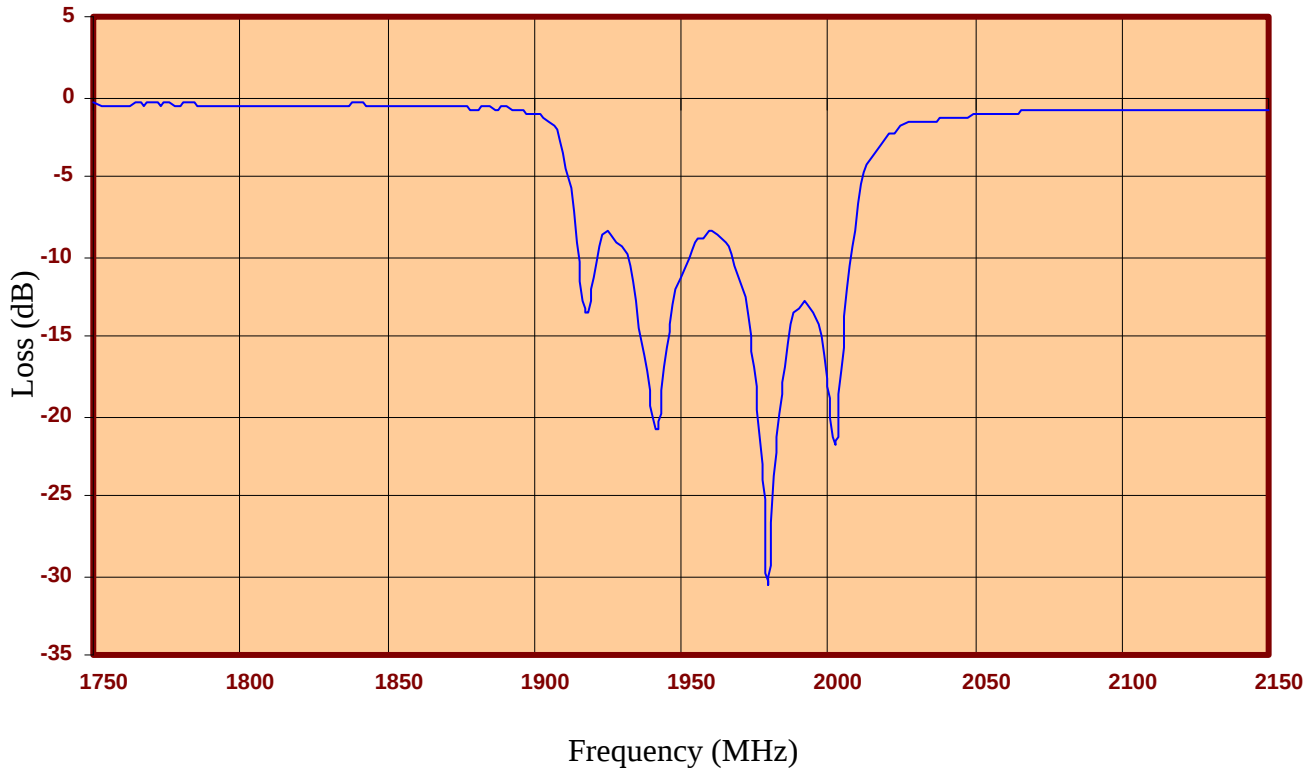


Typical Frequency Characteristics [full span]

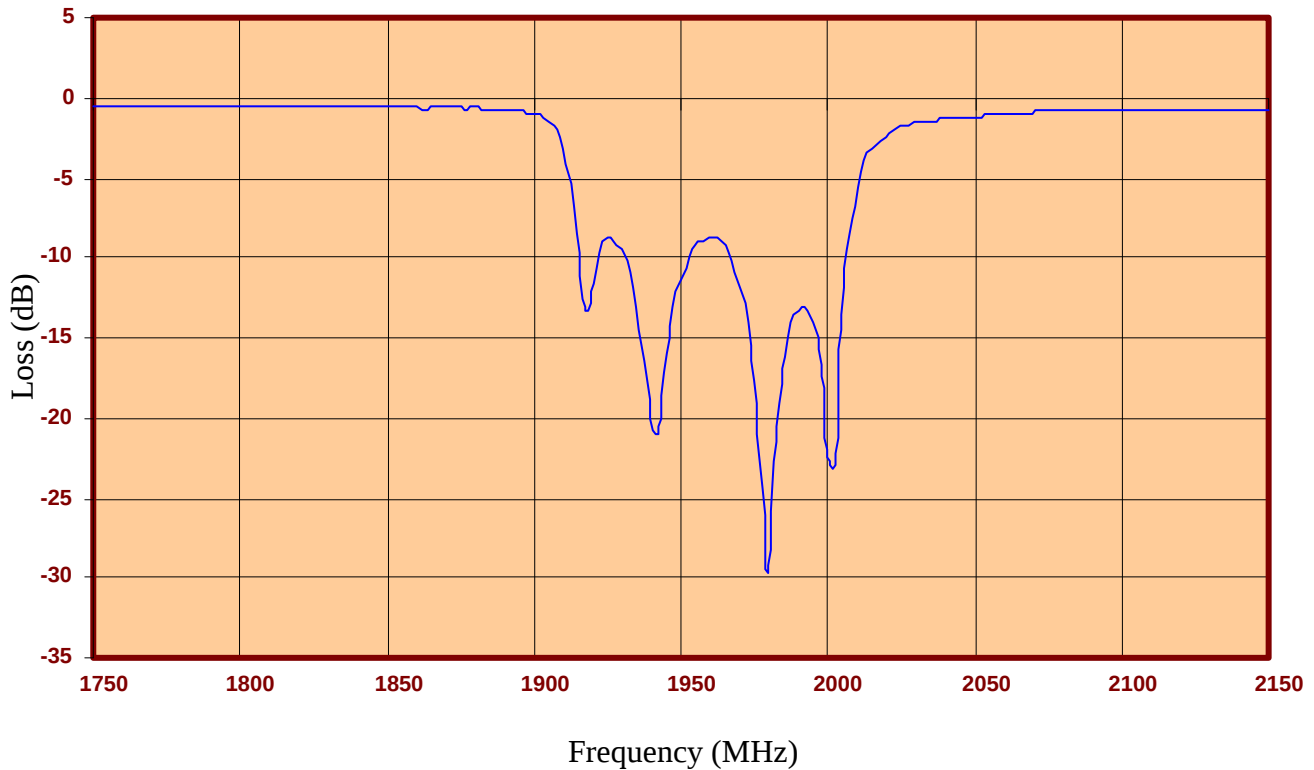


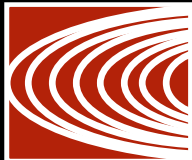


Male Side Return Loss



Female Side Return Loss





CRYSTEK
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RF Power Detector
Part Number: CPDETLS-4000
Frequency Range
10 MHz to 4000 MHz

New
RF Power Detector



Features:

- 10 MHz to 4 GHz Frequency Range
- Zero Bias Schottky
- Large Signal Power Detector, greater than -10 dBm
- +30 dBm Max Input Signal
- 100 pF Video Capacitance
- Operating Temperature: -20°C to 70°C
- Storage Temperature: -40°C to 85°C

Applications:

- Low Cost RF Power Monitoring
- General Lab Use

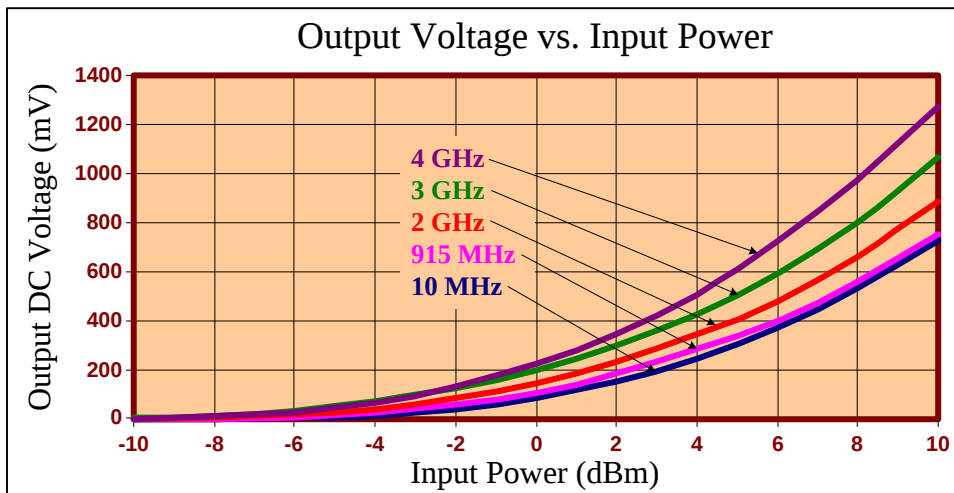
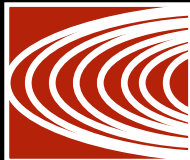
Product Control:

Crystek Part Number:	CPDETLS-4000	Release Date:	19-Sep-11
Revision Level:	C	Responsible:	K. Piotrowicz

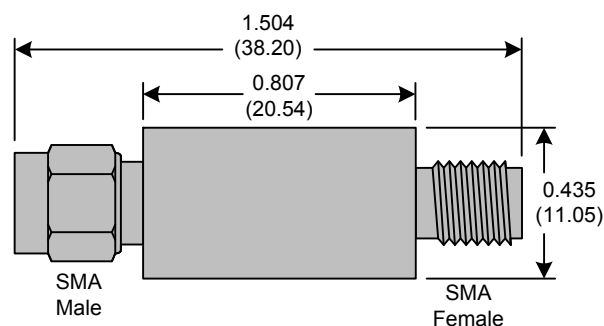


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	10MHz	50MHz	100MHz	500MHz	800MHz	915MHz	1GHz	1.5GHz	2GHz	3GHz	4GHz
-10 (dBm)	0.491	0.614	0.676	0.731	0.750	0.813	0.838	1.129	1.809	4.037	3.279
-8 (dBm)	1.286	1.719	1.920	2.081	2.152	2.361	2.452	3.590	5.682	12.702	10.317
-6 (dBm)	4.182	5.717	6.409	6.930	7.216	7.890	8.260	12.577	17.811	34.399	29.919
-4 (dBm)	13.900	18.369	20.059	21.334	22.166	23.793	24.790	31.572	43.310	70.238	68.075
-2 (dBm)	39.495	48.826	52.035	54.096	55.573	58.100	60.027	73.044	88.722	126.286	130.315
0 (dBm)	85.210	98.951	103.585	106.336	108.477	108.876	113.438	125.140	148.010	200.485	227.010
2 (dBm)	153.115	172.880	179.140	181.735	184.455	184.135	190.275	208.390	235.005	299.975	347.645
4 (dBm)	248.540	272.525	280.245	282.570	285.670	284.105	292.115	320.035	349.170	427.445	503.595
6 (dBm)	370.385	410.635	407.155	415.370	422.995	400.055	411.665	432.520	477.430	594.675	725.540
8 (dBm)	531.085	577.910	572.210	581.485	590.555	559.355	572.760	609.630	659.485	802.725	975.390
10 (dBm)	725.090	784.340	774.235	786.770	798.890	754.320	768.480	835.225	887.470	1063.620	1275.450



Schematic

