Picosecond Pulse Labs 5905-5GHz Low Pass Filter



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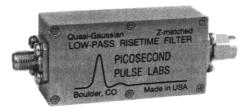


Model 5905-XMHz

Low Pass Filter

- 35 MHz 10 GHz
- Quasi-Gaussian Z-Matched

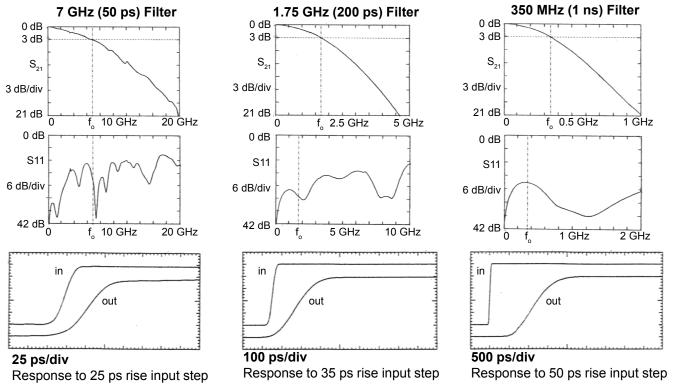
The Model 5905 Low Pass Filter has a quasi-Gaussian response. Bandwidths from 35 MHz to 10 GHz are available. This filter is ideal for use in digital telecommunication systems. Specify the desired -3 dB bandwidth when ordering. For example, a SONET sys-



tem operating at 2488 MB/s requires a 0.75/T, low pass, 1.87 GHz filter. The time domain pulse response is extremely clean. The 5905 is a proprietary, Z-matched, symmetrical filter containing both reactive and resistive elements. The unique aspect of this PSPL design is that the input and output impedances are well matched to 50 Ω , both within the pass band and in the rejection band. PSPL Filters filter by absorption rather than by reflection. This is especially important in a digital telecom system where delayed multiple reflection echoes can lead to intersymbol interference and degraded bit error rates. For additional details see PSPL Application Note AN-7a, "Low-Pass Risetime Filters for Time Domain Applications."

1.1			
Filter Type	Quasi-Gaussian	Max. Avg. Power	23 dBm (f _o), 20 dBm (f > 3*f _o)
-3 dB Bandwidth (f _o)	35 MHz to 10 GHz,	Max Current	1 A for f _o > 350 MHz
	specify on order		½ A (350 MHz) to ¼ A (35 MHz)
Bandwidth Tolerance	±5% at 23 C	Risetime	0.35 / f _o
Return Loss	>15 dB at f=f _o , typical	Temperature	-25 C to + 90 C, operating
Impedance	50 Ω	Dim. and Weight	2.85" x 1" x 0.65", 2 oz.
Insertion Loss	<0.1 dB for f _o > 175 MHz	Connectors	SMA jack (f) and plug (m)
	to 0.25 dB for f_0 = 35 MHz	optional	jack/jack or plug/plug
Max Voltage	50 V DC	Warranty	One year. See Terms and
			Conditions of Sale for details

Note: The 5905 is not recommended for new designs. The suggested, improved design, replacement is the PSPL Model 5915.



Frequency responses measured using a Wiltron 5447A, 10 MHz to 20 GHz network analyzer. Pulse step responses measured using an HP-54121A, 20 GHz oscilloscope.

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