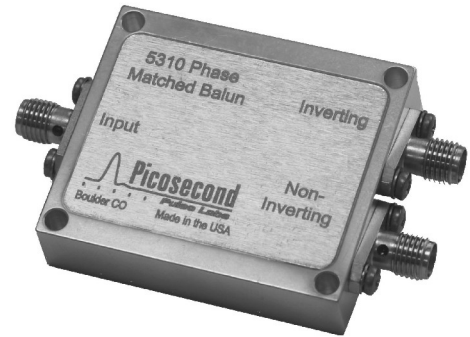


Features:

- Excellent Phase and Amplitude Balance from 100 MHz to 4 GHz
- Operating range 4 MHz to 6.5 GHz
- Designed for use with ADCs
- Maximum input power > +20 dBm

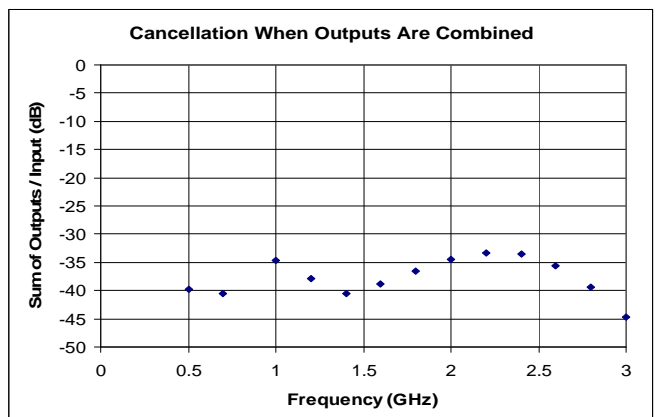
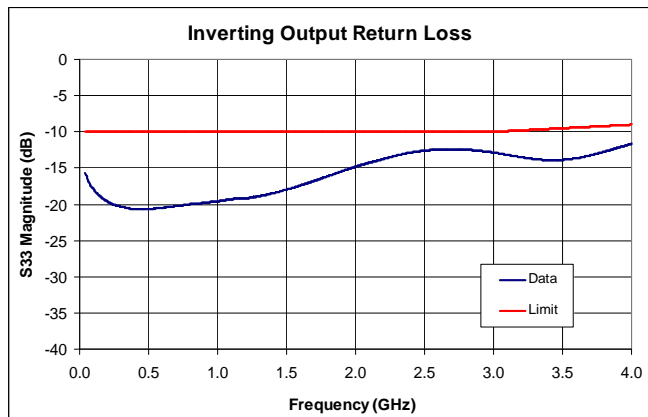
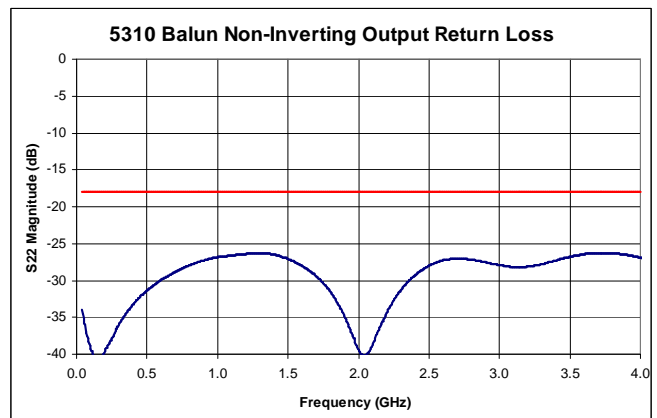
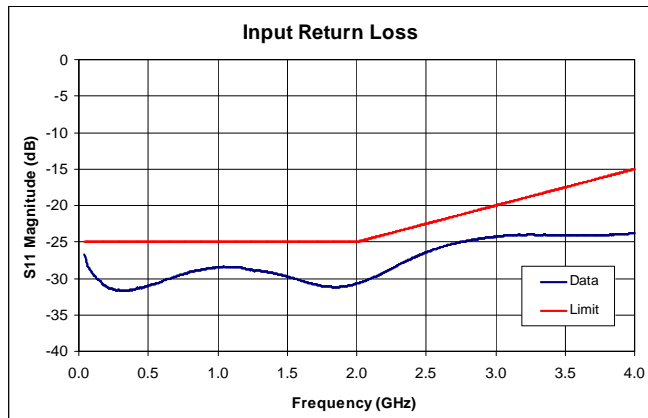
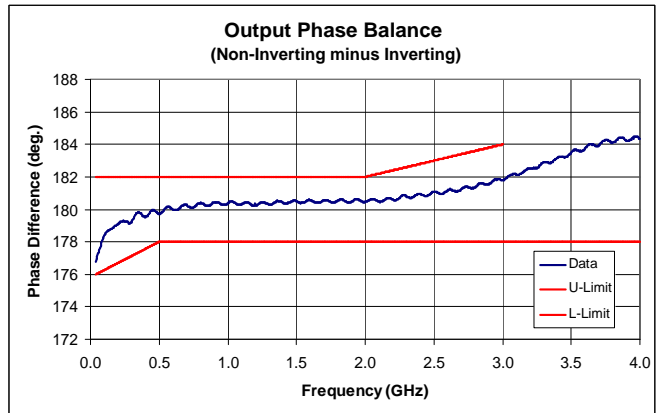
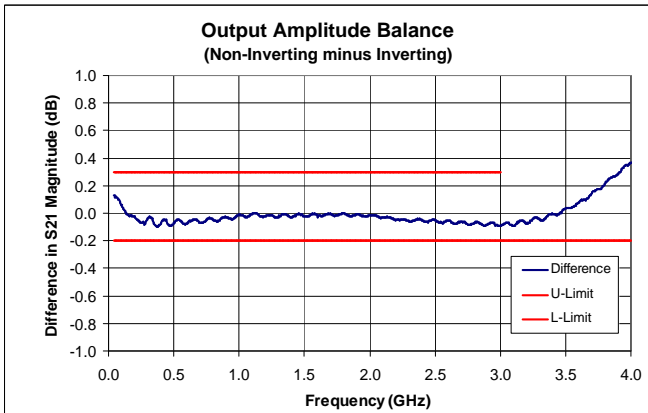
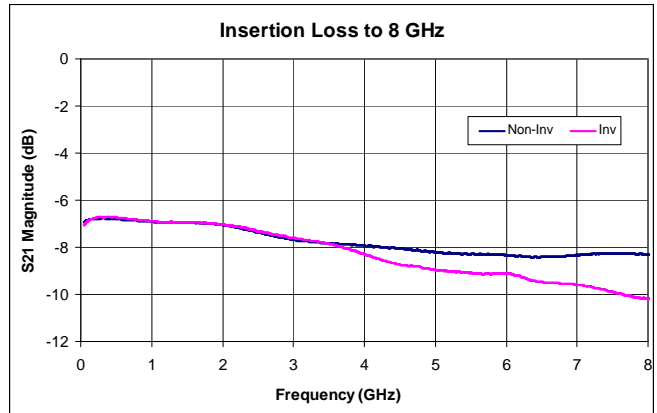
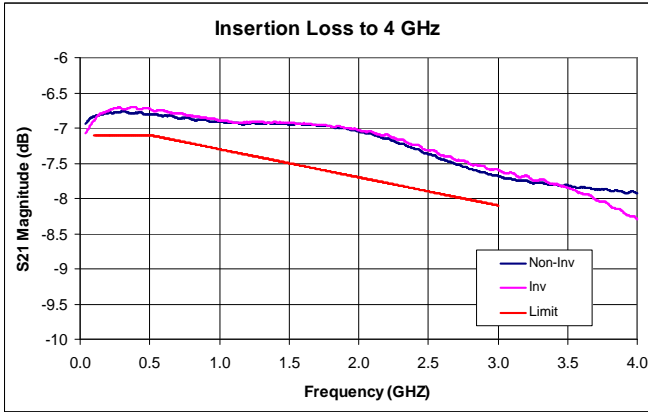


Specifications:

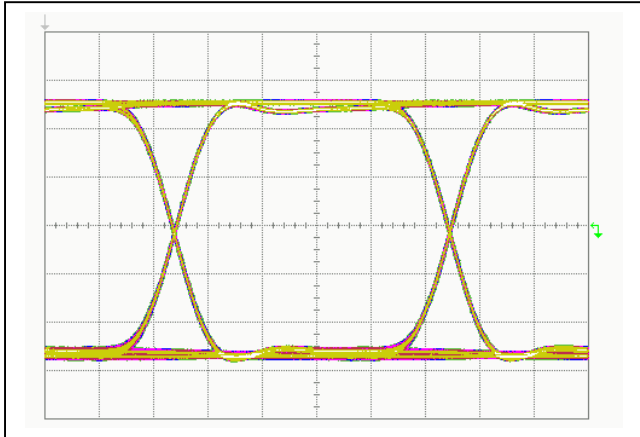
Characteristic	Test Condition	Minimum	Typical	Maximum	
Risetime	10% to 90%		54 ps		
Bandwidth	-3 dB		6.5 GHz		
Low Frequency Cutoff	-3 dB		4 MHz		
Insertion Loss ¹	100 MHz		6.9 dB	7.1 dB	
	1 GHz		6.9 dB	7.3 dB	
	2 GHz		7.1 dB	7.7 dB	
	3 GHz		7.6 dB	8.1 dB	
Impedance			50 Ohms		
Return Loss ¹	100 MHz – 2GHz		Input	-30 dB	-25 dB
			Non-Inverting Output	-30 dB	-18 dB
			Inverting Output	-15 dB	-10 dB
Delay			320 ps		
Differential Amplitude Balance ¹	100 MHz – 3.0 GHz		±0.1 dB	+0.3 dB -0.2 dB	
Differential Phase Balance ¹	500 MHz – 2.0 GHz		±0.5 degree	±2 degrees	
Maximum Input	100MHz	+20dBm			

Dimensions	1.75 x 1.50 x 0.46 in (44.5 x 38.1 x 11.7 mm) without connectors 2.50 x 1.50 x 0.46 in (63.5 x 38.1 x 11.7 mm) overall
Connectors *	SMA Jacks, SMA Plugs available on request
Weight	1.4 oz. (40 grams)
Operating Temperature	0C to +70C
Storage Temperature	-40C to +125C
Warranty	One Year, see Terms & Conditions

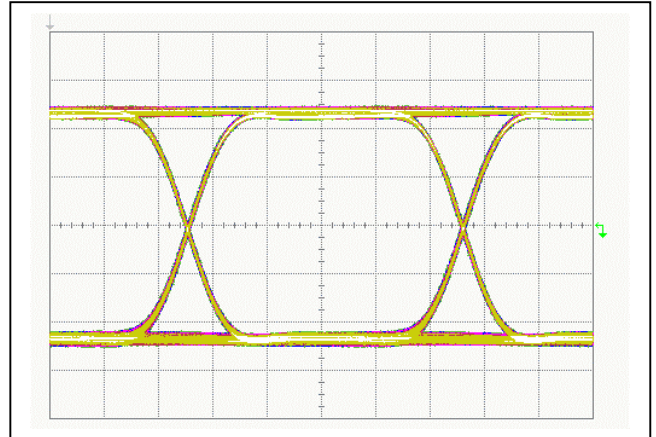
¹ See plots on the next page for typical S-parameters and test limits at other frequencies.



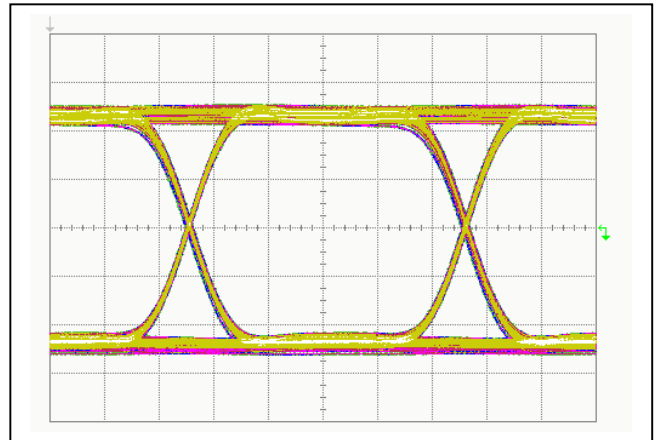
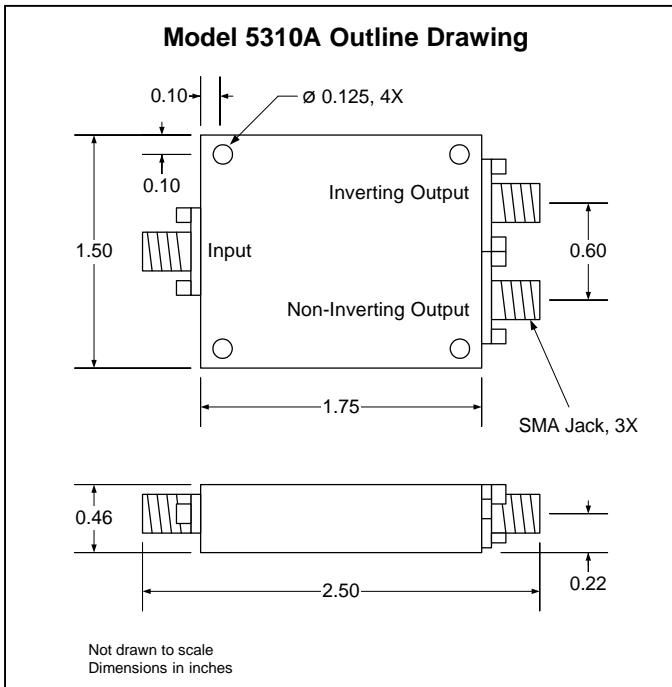
Response to 2G-b/s NRZ Signal with 2⁷-1 PRBS Pattern



Input
Amplitude scale = 100mV/div, Time Scale = 100ps/div



Non-Inverting Output
Amplitude scale = 50mV/div, Time Scale = 100ps/div



Inverting Output
Amplitude scale = 50mV/div, Time Scale = 100ps/div

Ordering Information:

Part Number	Description
5310A-104	Phase-Matched Balun, SMA Jacks
5310A-130	Phase-Matched Balun, Input SMA Jack, Outputs SMA Plugs