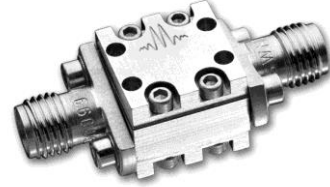


Equalizer (26 Gb/s)

EQ6-26

Features

- 26 Gb/s Equalizer
- Matched 50 Ohm Impedance on Input and Output Ports
- Applications: Digital Communications, Signal Integrity
- [EQ6-26.s2p](#)



Electrical Specifications - Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

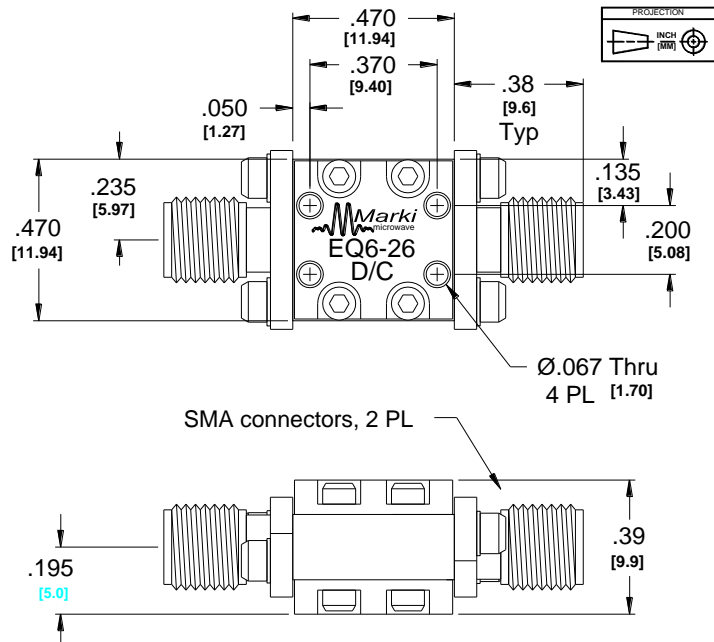
Parameter	Operating Frequency	Min	Typ	Max
Insertion Loss (dB)	10 MHz		6	
	10.5 GHz		2	
	26 GHz		0.6	
VSWR (Input)	DC – 26.5 GHz		1.4	
VSWR (Output)			1.2	
Risetime /Falltime (ps) ¹			15	
Total Input Power (W)				0.25
Weight (g)				9

¹Specified as 20%/80%.

Amplitude- and phase-matched pairs available; contact factory.

Model Number	Description
EQ6-26	26 Gb/s Equalizer with SMA connectors ¹

¹Default is SMA female connectors. Consult factory for other connector options.



Typical Performance

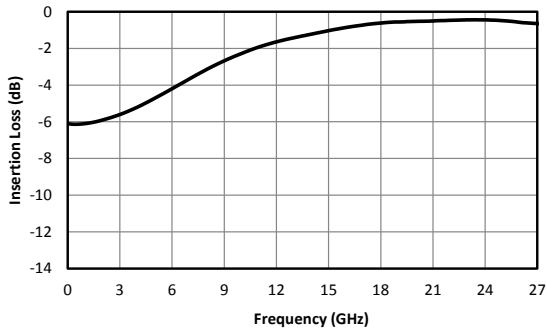


Figure 1: Insertion loss

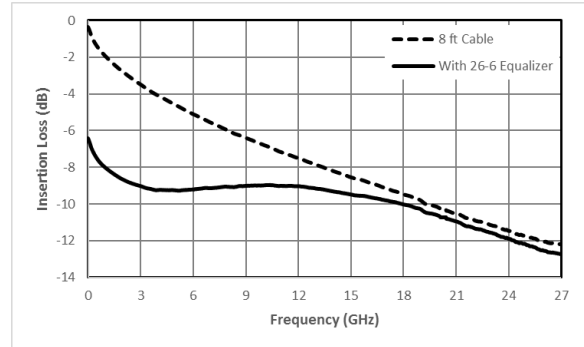


Figure 2: Insertion loss with lossy cable

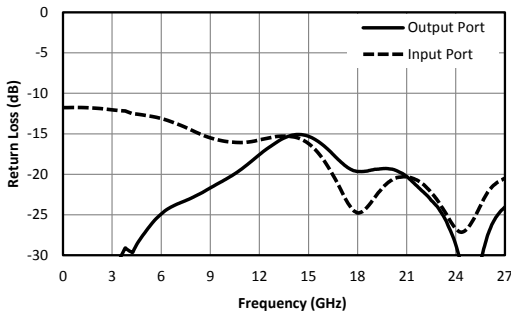


Figure 3: Return loss

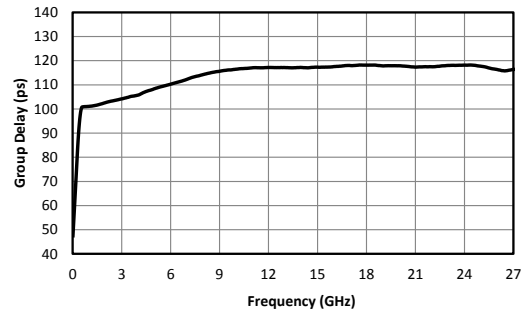


Figure 4: Group delay

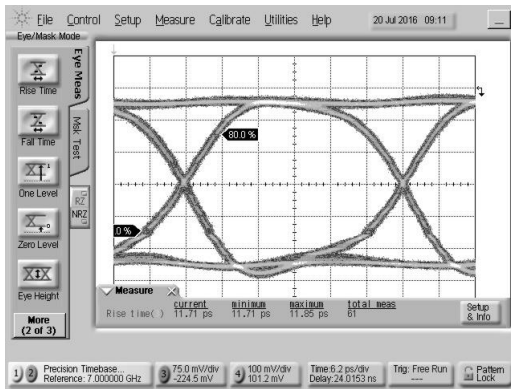


Figure 5: Input eye

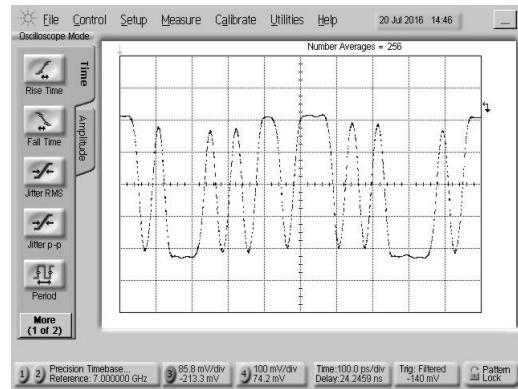


Figure 6: Input data pattern

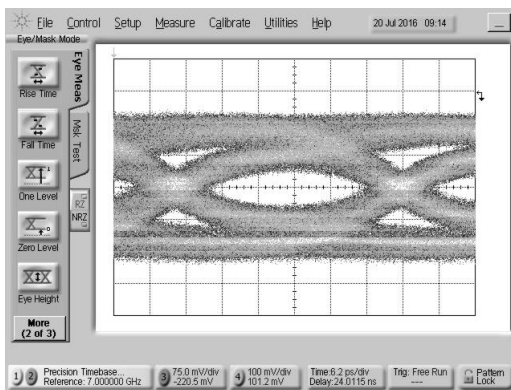


Figure 7: Eye after lossy cable

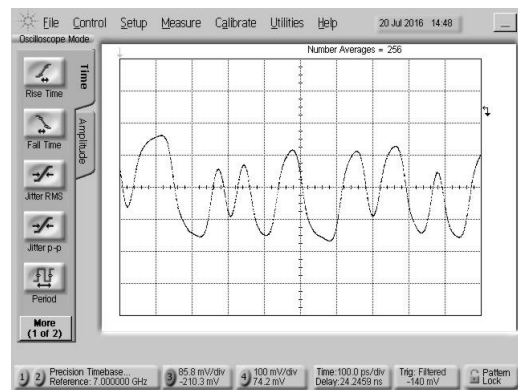


Figure 8: Data pattern after lossy cable

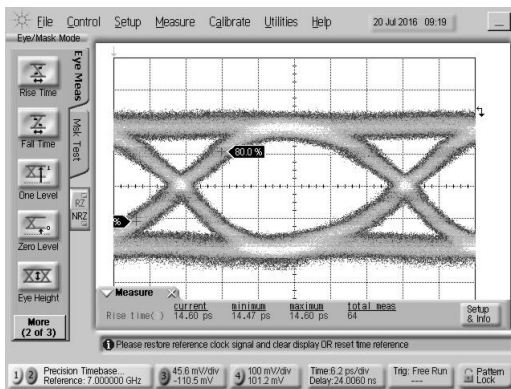


Figure 9: Eye after equalization

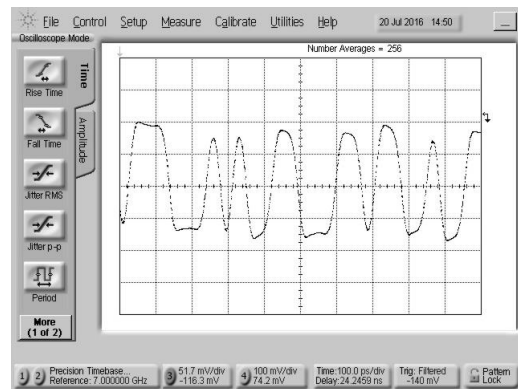


Figure 10: Data pattern after equalization

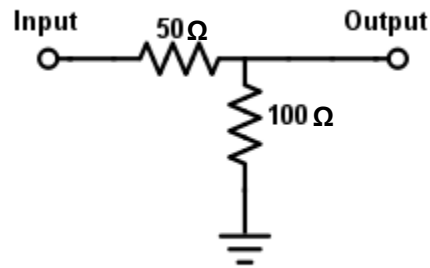
Oscilloscope measurements of the EQ6-26 with a 28 Gb/s PRBS pattern. Bit pattern is measured with a 2^7-1 PRBS input. Eye diagrams are taken with a 2^31-1 PRBS input. Figure 6, "Input data pattern", is uncorrelated with the other patterns due to the additional cable length.

Equalizer (26 Gb/s)

Page 4

EQ6-26

DC Schematic



Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use of or application of any product.