



BROADBAND PULSE INVERTER (200 kHz to 26.5 GHz)

INV-0026

Features

- 200 kHz to 26.5 GHz Pulse Inverter
- Fastest Rise and Fall Time
- Low Insertion Loss
- Matched 50 Ohm Impedance on Input and Output Ports
- [INV-0026.S2P](#)

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

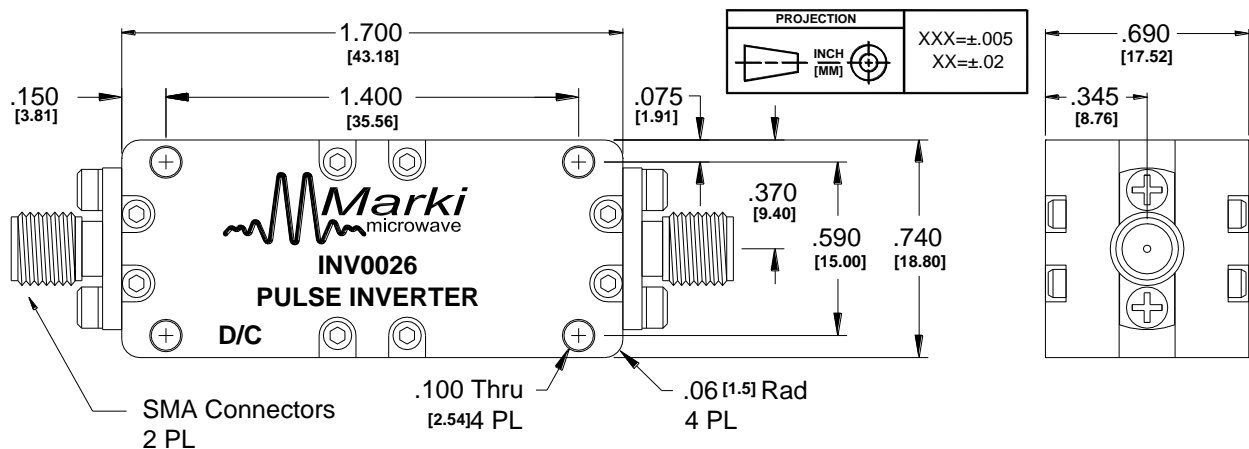
Parameter	Frequency Range	Min	Typ	Max
Nominal Phase Shift (Degrees) ¹			180	
Insertion Loss (dB)	200 kHz to 7 GHz		2	3
	7 to 26.5 GHz		1.2	2
VSWR	200 kHz to 24 GHz		1.35	
	24 to 26.5 GHz		1.7	
Risetime/Falltime (ps) ²			13	
Delay (ps)			280	
Weight (g)			43	

¹Relative to the phase of a transmission line with same group delay

²Specified as 90%/10%. Calculated from $\tau_{inv}^2 = (\tau_{out}^2 - \tau_{in}^2)$

Model Number	Description
INV-0026	200 kHz to 26.5 GHz Pulse Inverter with SMA connectors ¹

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

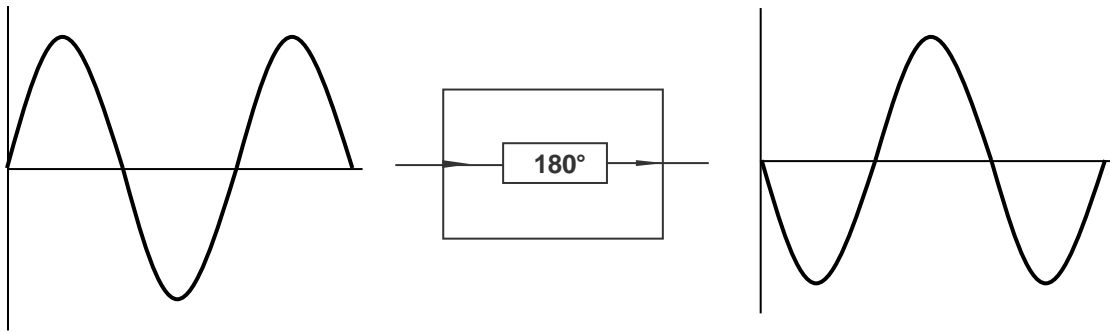


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Block Diagram



Typical Performance

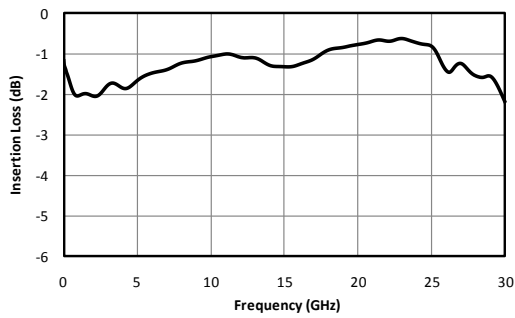


Fig. 1. Insertion loss.

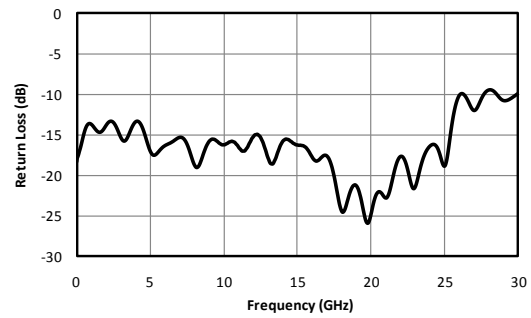


Fig. 2. Return loss.

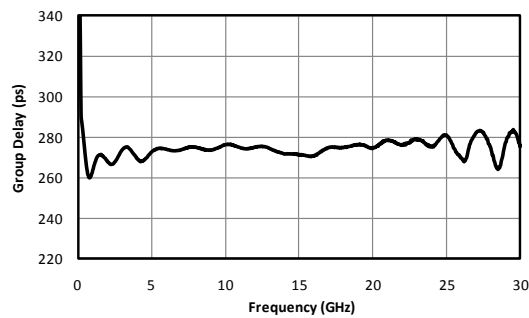


Fig. 3. Group Delay.

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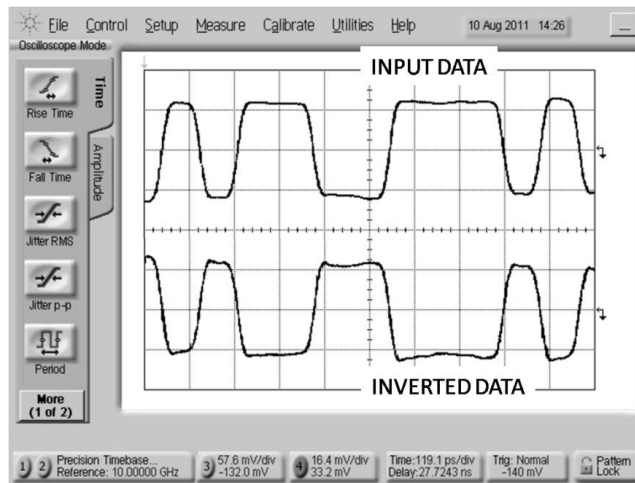


Fig. 4. Oscilloscope measurements of the INV-0026 with a 10 Gb/s PRBS pattern. Bit pattern is measured with a 2^7-1 PRBS input demonstrating extremely good pulse fidelity for the inverted output.

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