

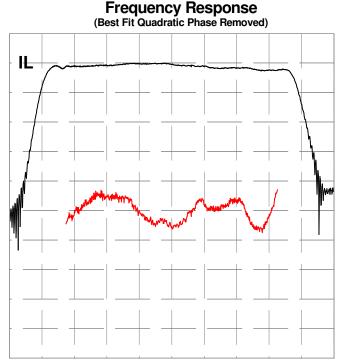
Specifications

Parameter	Symbol	Min	Typical	Max	Unit	
Center Frequency	Fo		500		MHz	
Bandwidth	В		145		MHz	
Dispersion	Т		3		µsec	
Delay	T ₀	2.5	2.543	2.58	µsec	
Insertion Loss	IL		25.8	32.5	dB	
Slope	S ₀	0.0206	0.0208	0.0209	µs/MHz	
Pulse Width at -3 dB			0.0059	0.006	µsec	
Sidelobes for $ t - T_0 < T$			-13.6	-10	dB	
Time Spurious for $ t - T_0 > T$			-60	-56	dB	
Substrate Material	YZ-LN					

Notes

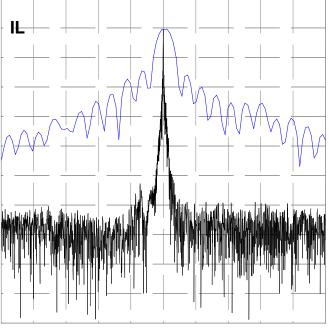
- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as $|B * S_0|$.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Delay and Slope determined by best fit quadratic pulse in $|f F_0| < .5B$.
- 4. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF₀ = -x * F₀, dT₀ = x * (T₀ + S₀ * F₀), dS₀ = x * 2 * S₀, where x = 94E-6 * (temperature – 22 °C)

Typical Performance



10 dB/div, 10 deg/div, 20.000 MHz/div





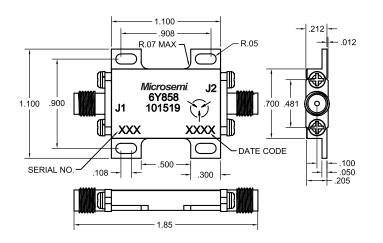
10 dB/div, 0.500 us/div, 0.014 us/div



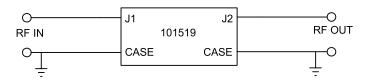
101519C

ID500-145-3U+ 500 MHz Dispersive Delay Line 145 MHz Bandwidth

Package Outline



Matching





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