

101419C RD150-35-8W- 150 MHz Dispersive Delay Line 35 MHz Bandwidth

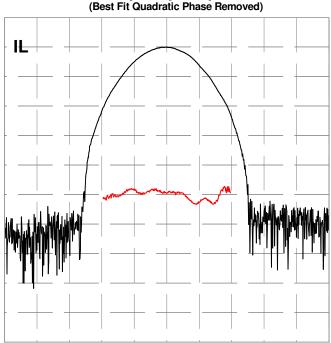
Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		150		MHz
Bandwidth	В		35		MHz
Dispersion	Т		8		µsec
Delay	To	7.6	7.613	7.64	µsec
Insertion Loss	IL		27.6	28.5	dB
Slope	S ₀	-0.229	-0.229	-0.228	µs/MHz
Pulse Width at -3 dB			0.0384	0.0385	µsec
Sidelobes for $ t - T_0 < T$			-41.2	-34	dB
Time Spurious for $ t - T_0 > T$			-63	-60	dB
Substrate Material	YZ-LN				

Notes

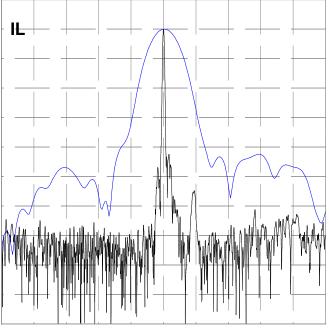
- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as $|B * S_0|$.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Delay and Slope determined by best fit quadratic pulse in $|f F_0| < .5B$.
- 4. Specifications are at 22 °C only. Unit will 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, 8.000 MHz/div

Compressed Pulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/B-1.0)))^2)



10 dB/div, 1.000 us/div, 0.057 us/div

Frequency Response (Best Fit Quadratic Phase Removed)

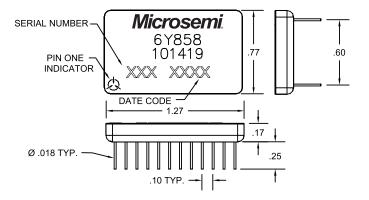


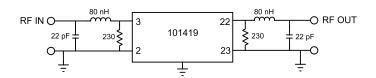
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Package Outline









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MSCC-0347-DS-01040-2.00-0717