

101309C

RD450-200-23.4W-450 MHz Dispersive Delay Line 200 MHz Bandwidth

Specifications

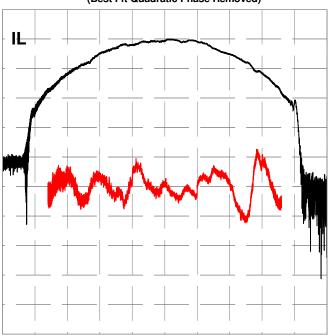
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		450		MHz
Bandwidth	В		200		MHz
Dispersion	Т		23.4		µsec
Delay	T ₀	13.75	13.84	13.9	µsec
Insertion Loss	IL		47.8	52	dB
Slope	S_0	-0.118	-0.117	-0.116	µs/MHz
Pulse Width at -3 dB			0.0063	0.0067	µsec
Sidelobes for $ t - T_0 < T$			-29.3	-24	dB
Time Spurious for $ t - T_0 > T$			-71	-65	dB
Substrate Material	YZ-LN				

Notes

- 1. Center Frequency (F_0) 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 $dF_0 = -x * F_0$, $dT_0 = x * (T_0 + S_0 * F_0)$, $dS_0 = x * 2 * S_0$, where x = 94E-6 * (temperature 22 °C)

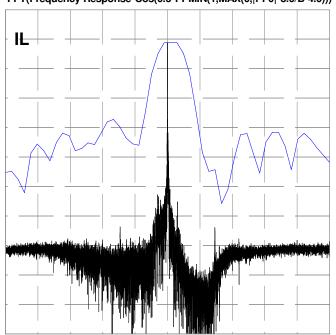
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 25.000 MHz/div

Compressed Pulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*8.0/B-4.0)))^2)



10 dB/div, 3.200 us/div, 0.010 us/div

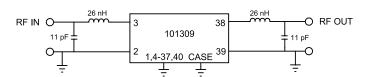


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Package Outline

Matching





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