

101154C

RD250-72-20W- 250 MHz Dispersive Delay Line 72 MHz Bandwidth

Specifications

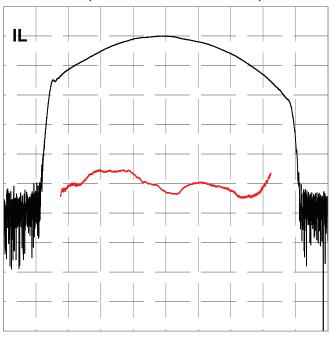
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		250		MHz
Bandwidth	В		72		MHz
Dispersion	Т		20		µsec
Delay	T ₀	12.4	12.437	12.5	µsec
Insertion Loss	IL		34.4	37	dB
Slope	S_0	-0.271	-0.27	-0.269	µs/MHz
Pulse Width at -3 dB			0.0164	0.017	µsec
Sidelobes for $ t - T_0 < T$			-26.6	-23	dB
Time Spurious for $ t - T_0 > T$			-87	-75	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)

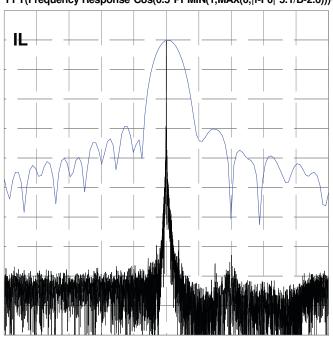
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 10.000 MHz/div

Compressed Pulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*5.1/B-2.6)))^2)



10 dB/div, 4.000 us/div, 0.028 us/div



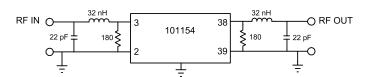
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Package Outline

2.095 Microsemi. 6Y858 .750 .600 101154 SERIAL NO. DATE CODE PIN 1 MARKER .200 MAX. L 100 MIN - Ø.018 TYP.

Matching





Microsemi Corporate Headquarters

One Enterprise, Aliso Viejo, CA 92656 USA Within the USA: +1 (800) 713-4113 Outside the USA: +1 (949) 380-6100 Fax: +1 (949) 215-4996 Email: sales.support@microsemi.com www.microsemi.com

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