

100866C

RD60-20-20U- 60 MHz Dispersive Delay Line 20 MHz Bandwidth

Specifications

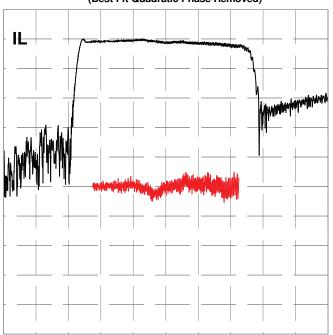
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		60		MHz
Bandwidth	В		20		MHz
Dispersion	Т		20		µsec
Delay	T ₀	13.8	13.857	13.9	µsec
Insertion Loss	IL		43.4	45	dB
Slope	S ₀	-1.02	-1.01	-0.99	µs/MHz
Pulse Width at -3 dB			0.0418	0.043	µsec
Sidelobes for $ t - T_0 < T$			-13.3	-11	dB
Time Spurious for $ t - T_0 > T$			-51	-48	dB
Substrate Material	128YX-LN				

Notes

- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as |B*S₀|.
- 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 = 75E-6 * (temperature 22 °C)

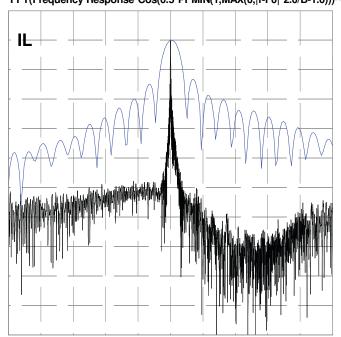
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 4.000 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, 4.000 us/div, 0.100 us/div



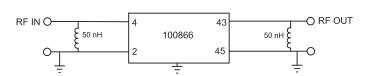
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Package Outline

2.400 Microsemi 6Y858 100866 PIN1 ID DATE CODE .175 MAX .100 MIN Ø.018 TYP

Matching





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