

101523C

LR160-72-.825 160 MHz Delay Line 72 MHz Bandwidth

Specifications

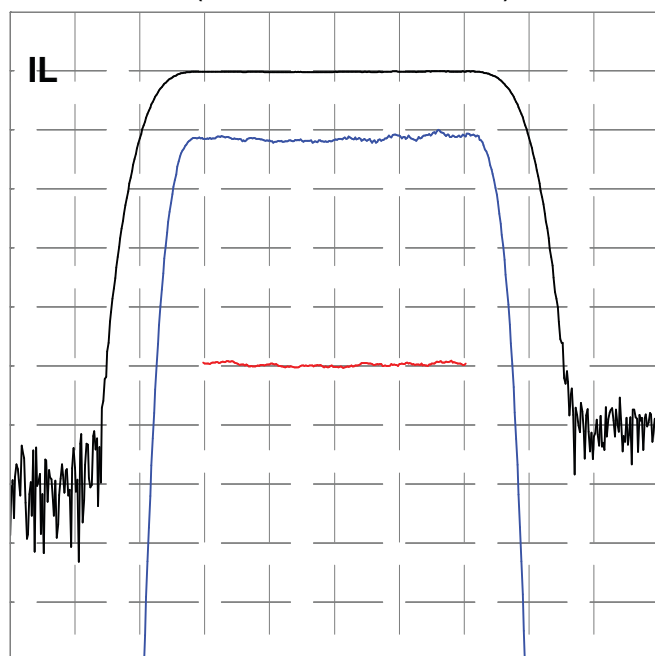
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F_0		160		MHz
Bandwidth	B		72		MHz
Delay	T_0	0.82	0.824	0.825	μsec
Insertion Loss	IL		32.4	33	dB
Amplitude Ripple			0.3	1	dB _{P-P}
Phase Ripple			1.2	2	deg _{P-P}
Spurious for $ f - F_0 > .9B$			-61	-58	dB
Substrate Material	128YX-LN				

Notes

- Center Frequency (F_0) and Bandwidth (B) are defined, not measured.
- Insertion Loss is the minimum loss for $|f - F_0| < .5B$
- Ripple spec applies to the $|f - F_0| < .4B$, and is doubled for $.4B < |f - F_0| < .5B$
- Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts $dF_0 = -x * F_0$, $dT_0 = x * T_0$, where $x = 75E-6 * (\text{temperature} - 22 \text{ °C})$

Typical Performance

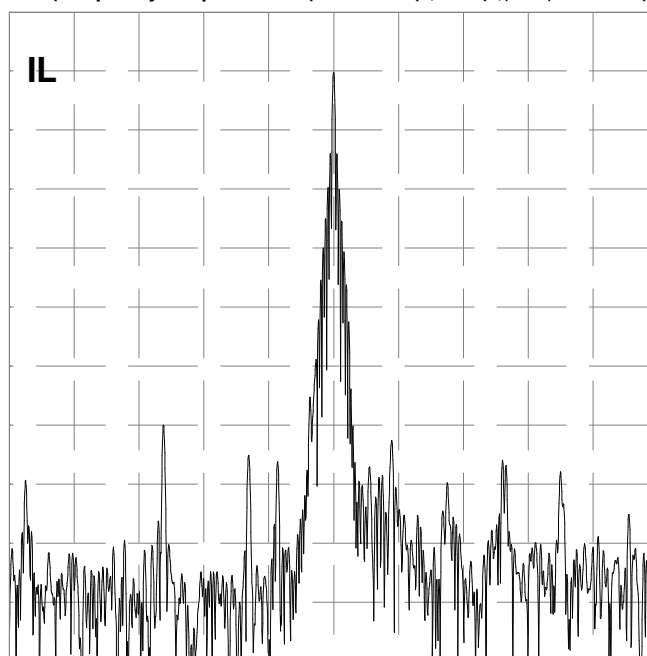
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 16.000 MHz/div

Impulse Response

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

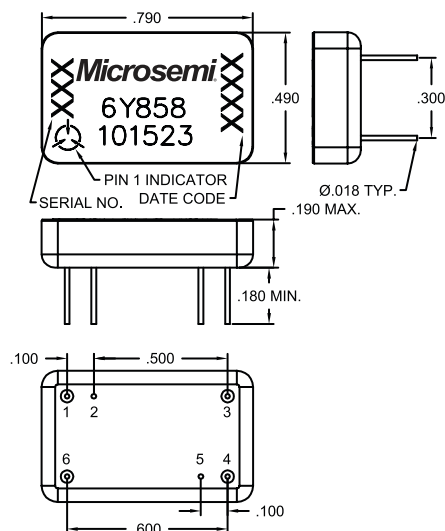


10 dB/div, 0.313 μs /div

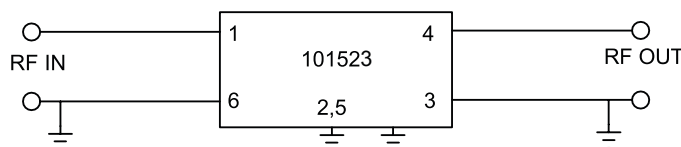
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Package Outline



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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