

101249C

FB367.5-2.5 367.5 MHz Bandpass Filter 2.5 MHz Bandwidth

Specifications

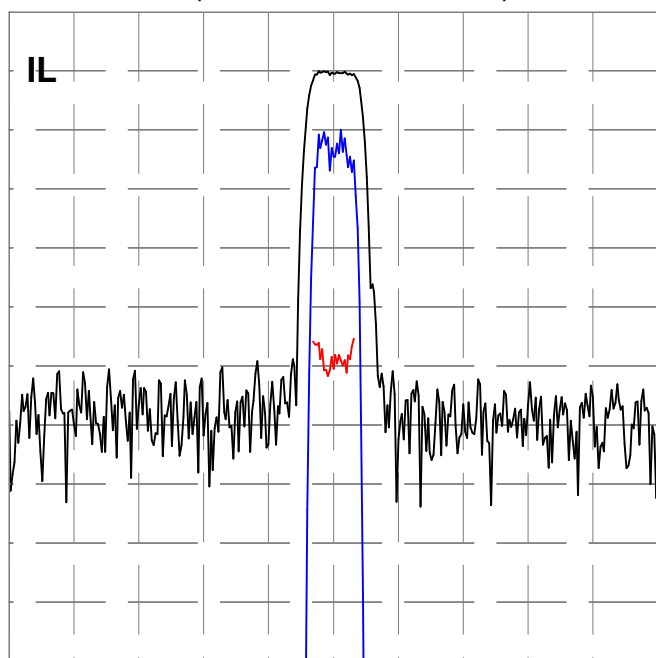
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F_0		367.5		MHz
Bandwidth	B		2.5		MHz
-3dB Bandwidth	B_3	2.5	2.6		MHz
-40dB Bandwidth	B_{40}		4.13	4.39	MHz
Delay	T_0	2.107	2.123	2.138	μsec
Insertion Loss	IL		18.5	21.1	dB
Amplitude Ripple			0.8	1.7	dB _{P-P}
Phase Ripple			5.1	8.9	deg _{P-P}
Rejection		48	50		dB
Spurious for $ t - T_0 > .9T_0$			-38	-34	dB
Substrate Material		36YX-Q			

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 $.4B < |f - F_0| < .5B$
- Rejection spec applies to $(B_{40} \text{ Spec} - B / 2) < |f - F_0| < F_0 / 2$
- 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 $x = 3E-8 * (\text{temperature} - 22 \text{ °C})$

Typical Performance

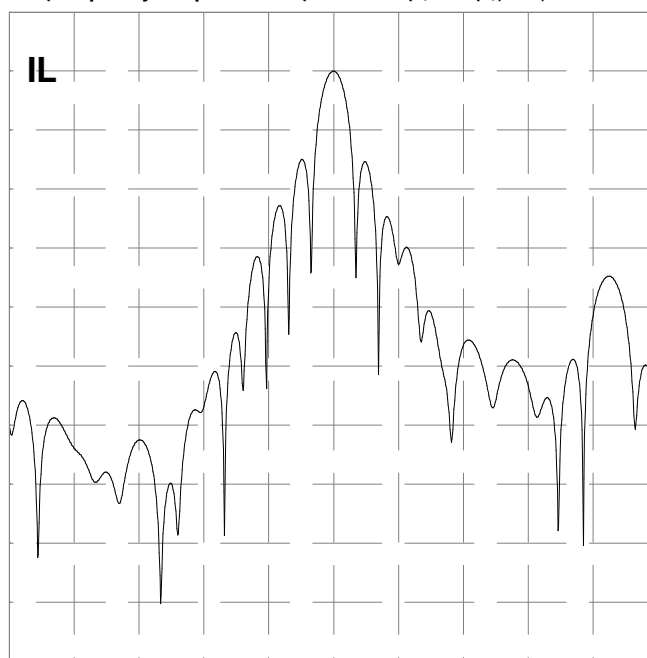
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 3.500 MHz/div

Impulse Response

FFT(Frequency Response * Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/2.5-1.0)))^2)

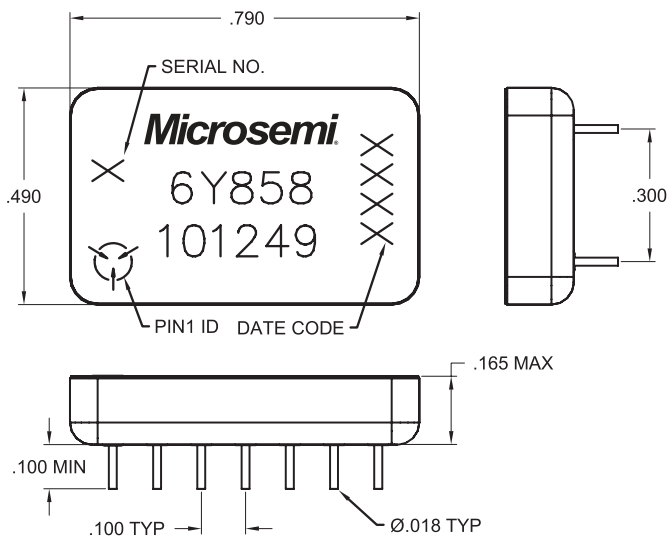


10 dB/div, 1.000 us/div

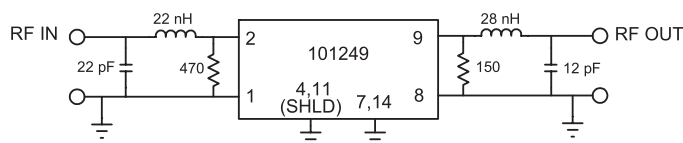
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Package Outline



Matching



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