

101102C

FB37-20 20 MHz Bandwidth 37 MHz Bandpass Filter

Specifications

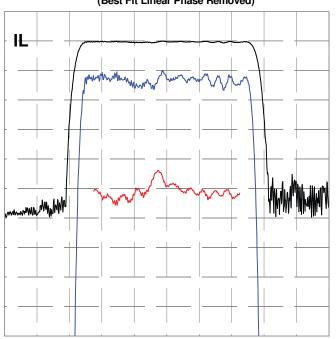
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		37		MHz
Bandwidth	В		20		MHz
-3 dB Bandwidth	В3	21.4	21.6		MHz
-40 dB Bandwidth	B ₄₀		24.5	24.7	MHz
Delay	T ₀	3.66	3.679	3.7	µsec
Insertion Loss	IL		27.1	28	dB
Amplitude Ripple			0.7	1	dB _{P-P}
Phase Ripple			8.4	16	deg _{P-P}
Rejection		46	49		dB
Spurious for $ t - T_0 > .9T_0$			-54	-48	dB
Substrate Material	128YX-LN				

Notes

- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Ripple spec applies to the $|f F_0| < .4B$, and is doubled for $.4B < |f F_0| < .5B$
- 4. Rejection spec applies to $(B_{40} \text{ Spec} B/2) < |f F_0| < F_0/2$
- 5. 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* (temperature -22 °C)

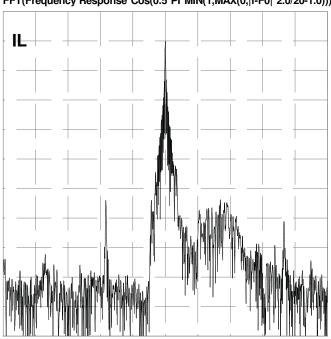
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 4.000 MHz/div

Impulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/20-1.0)))^2)



10 dB/div, 2.000 us/div



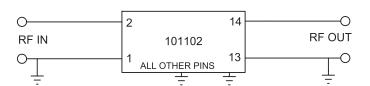
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Package Outline

1.270 *Microsemi.* .770 6Y858 .600 01102 SERIAL NO. PIN 1 ID DATE CODE .175 MAX .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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