

101193C

FB260-50 260 MHz Bandpass Filter 50 MHz Bandwidth

Specifications

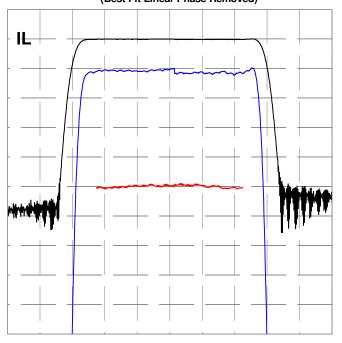
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		260		MHz
Bandwidth	В		50		MHz
-3 dB Bandwidth	B ₃	56.4	56.9		MHz
-40 dB Bandwidth	B ₄₀		66.3	66.8	MHz
Delay	To	3.66	3.673	3.68	µsec
Insertion Loss	IL		25.4	26.5	dB
Amplitude Ripple			0.4	1	dB _{P-P}
Phase Ripple			2	3	deg _{P-P}
Rejection		48	50		dB
Spurious for $ t - T_0 > .9T_0$			-56	-54	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)

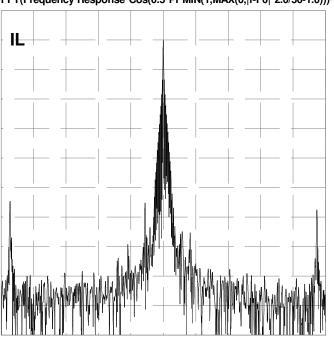
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 9.997 MHz/div

Impulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/50-1.0)))^2)



10 dB/div, 0.778 us/div



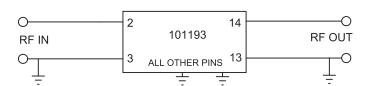
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Package Outline

1.270 *lVIIcrosemi.* .770 6Y858 .600 01193 SERIAL NO. PIN 1 ID DATE CODE .175 MAX .100 MIN Ø.018 TYP

Matching





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