

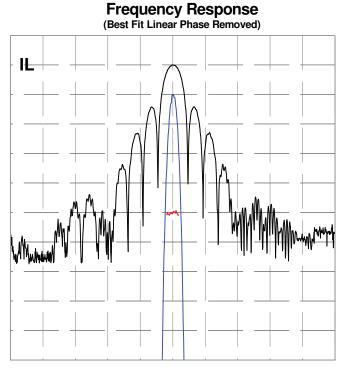
Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	Fo		97.5		MHz
Bandwidth	В		5		MHz
-3 dB Bandwidth	B ₃	4.8	5.1		MHz
-40 dB Bandwidth	B ₄₀		48	49	MHz
Delay	To	0.915	0.969	1.025	µsec
Insertion Loss	IL		26	27	dB
Amplitude Ripple			2	3	dB _{P-P}
Phase Ripple			1.6	2.5	deg _{P-P}
Rejection		40	42		dB
Spurious for $ t - T_0 > .9T_0$			-39	-35	dB
Substrate Material	X112Y-LT				

Notes

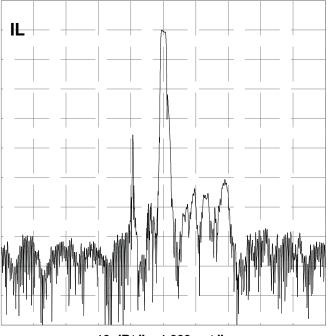
- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Ripple spec applies to the $|f F_0| < .4B$, and is doubled for $.4B < |f F_0| < .5B$
- 4. Rejection spec applies to $(B_{40} \text{ Spec} B/2) < |f F_0| < F_0/2$
- 5. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF₀ = $-x^*$ F₀, dT₀ = x^* T₀, where $x = 18E-6^*$ (temperature -22 °C)

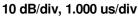
Typical Performance



10 dB/div, 1 dB/div, 10 deg/div, 12.000 MHz/div

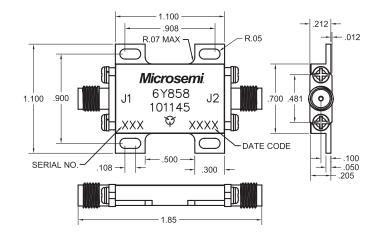
Impulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/32-1.0)))^2)





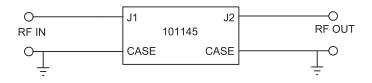


101145C FB97.5-5 5 MHz Bandwidth 97.5 MHz Bandpass Filter



Package Outline

Matching





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