

## 101449C

### FB720-120 720 MHz Bandpass Filter 120 MHz Bandwidth

### **Specifications**

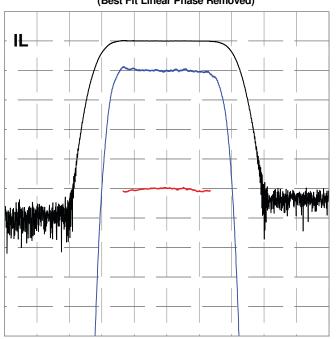
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F <sub>0</sub>		720		MHz
Bandwidth	В		120		MHz
-3 dB Bandwidth	В3	154	155.9		MHz
-40 dB Bandwidth	B <sub>40</sub>		222.3	224	MHz
Delay	T <sub>0</sub>	0.97	0.976	0.985	µsec
Insertion Loss	IL		31.9	34	dB
Amplitude Ripple			0.2	0.5	dB <sub>P-P</sub>
Phase Ripple			1.7	2.5	deg <sub>P-P</sub>
Rejection		48	51		dB
Spurious for $ t - T_0  > .9T_0$			-54	-52	dB
Substrate Material	128YX-LN				

#### **Notes**

- 1. Center Frequency (F<sub>0</sub>) 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)

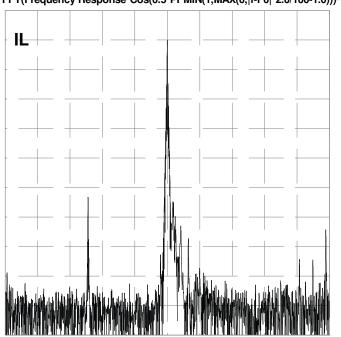
### **Typical Performance**

# Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 40.000 MHz/div

# Impulse Response FFT(Frequency Response\*Cos(0.5\*PI\*MIN(1,MAX(0,|f-F0|\*2.0/160-1.0)))^2)



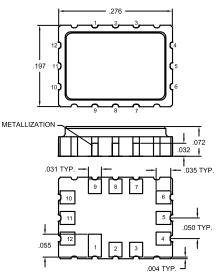
10 dB/div, 0.400 us/div



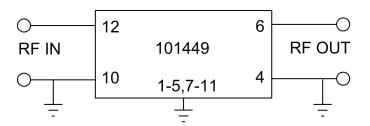
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### **Package Outline**



### 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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