

# **SPECIFICATION**

## **COMMERCIALY AVAILABLE**

**CERAMIC BAND PASS**  
**PART NUMBER: CF-10900147**

**RoHS**

<b>ISSUED / REVISION</b>	<b>ENGINEER APPROVED</b>	<b>DOCUMENT CHECKED</b>	<b>DRAFTSMAN</b>	<b>DOCUMENT CHECKED</b>
10/6/16 <sup>(kn)</sup>				

***FILTRONETICS Inc***

## 1. APPLICATION

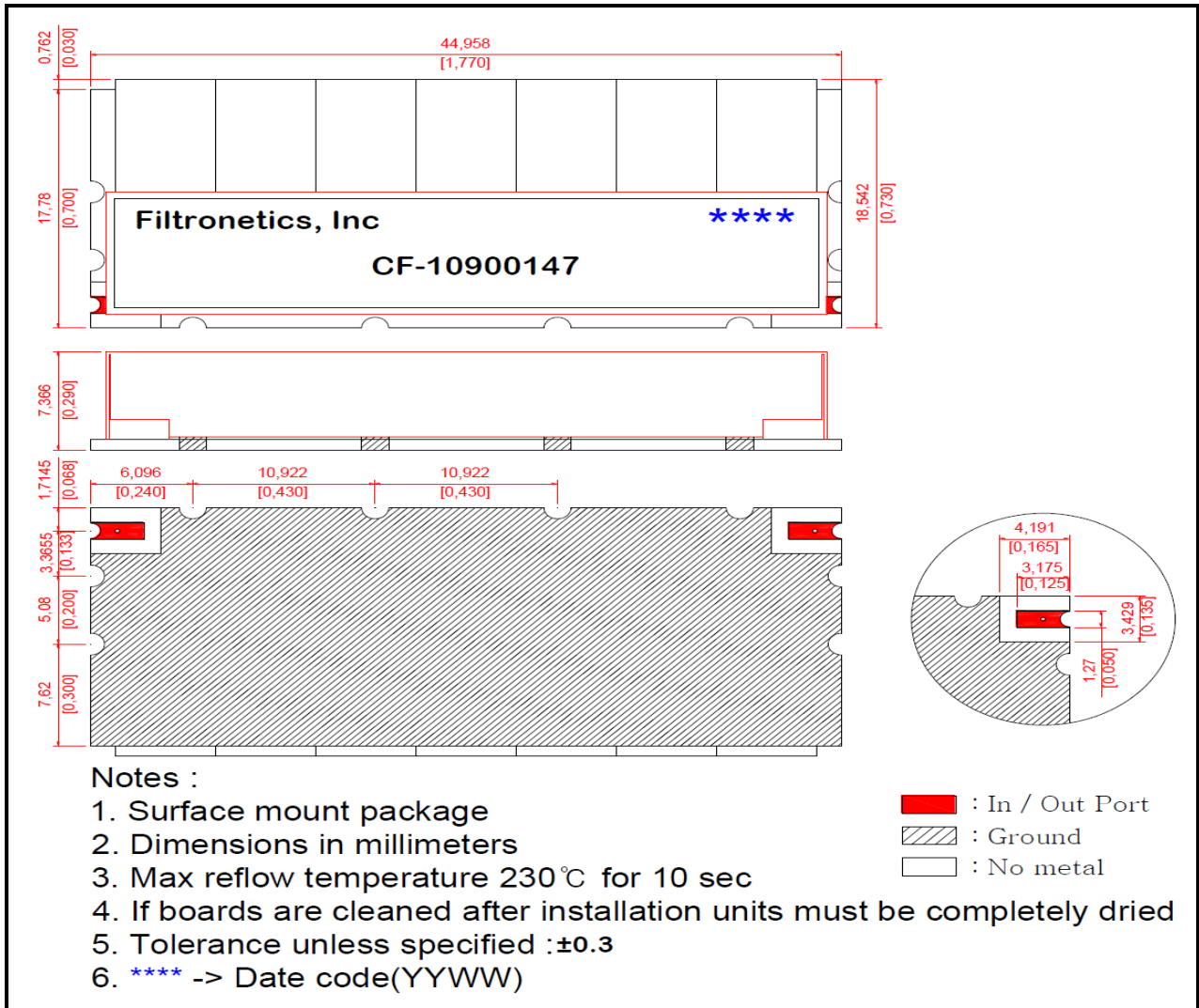
THIS SPECIFICATION APPLIES TO A BAND PASS FILTER, USING DIELECTRIC RESONATORS.

## 2. PART NUMBER: CF-10900147

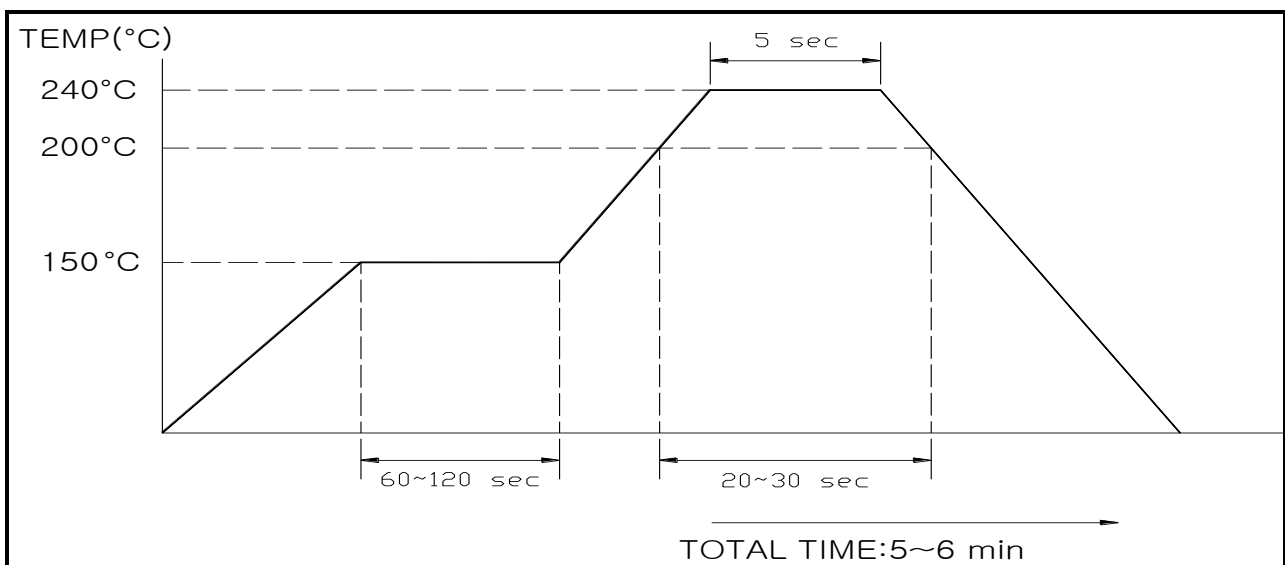
## 3. SPECIFICATIONS:

No.	Parameter	Unit	Specification
1	Center Frequency	MHz	1090
2	Bandwidth	MHz	$F_c \pm 7.0$ (1083 ~ 1097MHz)
3	Insertion Loss in BW	dB	7.0 max.(from -40 ~ +25°C)
			8.0 max.(from +25 ~ +85°C)
4	Ripple in BW	dB	2.3 max.
5	Return Loss in BW	dB	14 min.
6	Attenuation	dBc	80 min. @ 960 ~ 1040MHz
			51 min. @ 1040 ~ 1071MHz
			63 min. @ 1065MHz
			44 min. @ 1073MHz
			19 min. @ 1078MHz
			19 min. @ 1102MHz(-40 ~ +60°C)
			17 min. @ 1102MHz(+61 ~ +85°C)
			41 min. @ 1107MHz
			60 min. @ 1113MHz
			52 min. @ 1110 ~ 1140MHz
80 min. @ 1140 ~ 1215MHz			
7	Input Power	Watt	1 max.
8	IN/OUT Impedance	$\Omega$	50
9a	Operating Temp. Range	°C	-40 ~ +85
9b	Storage Temp. Range	°C	-55~+125
10	Weight	g	16 max. (0.59oz max.)
11	RoHS Compliant	-	Yes

**4. DIMENSIONS:**

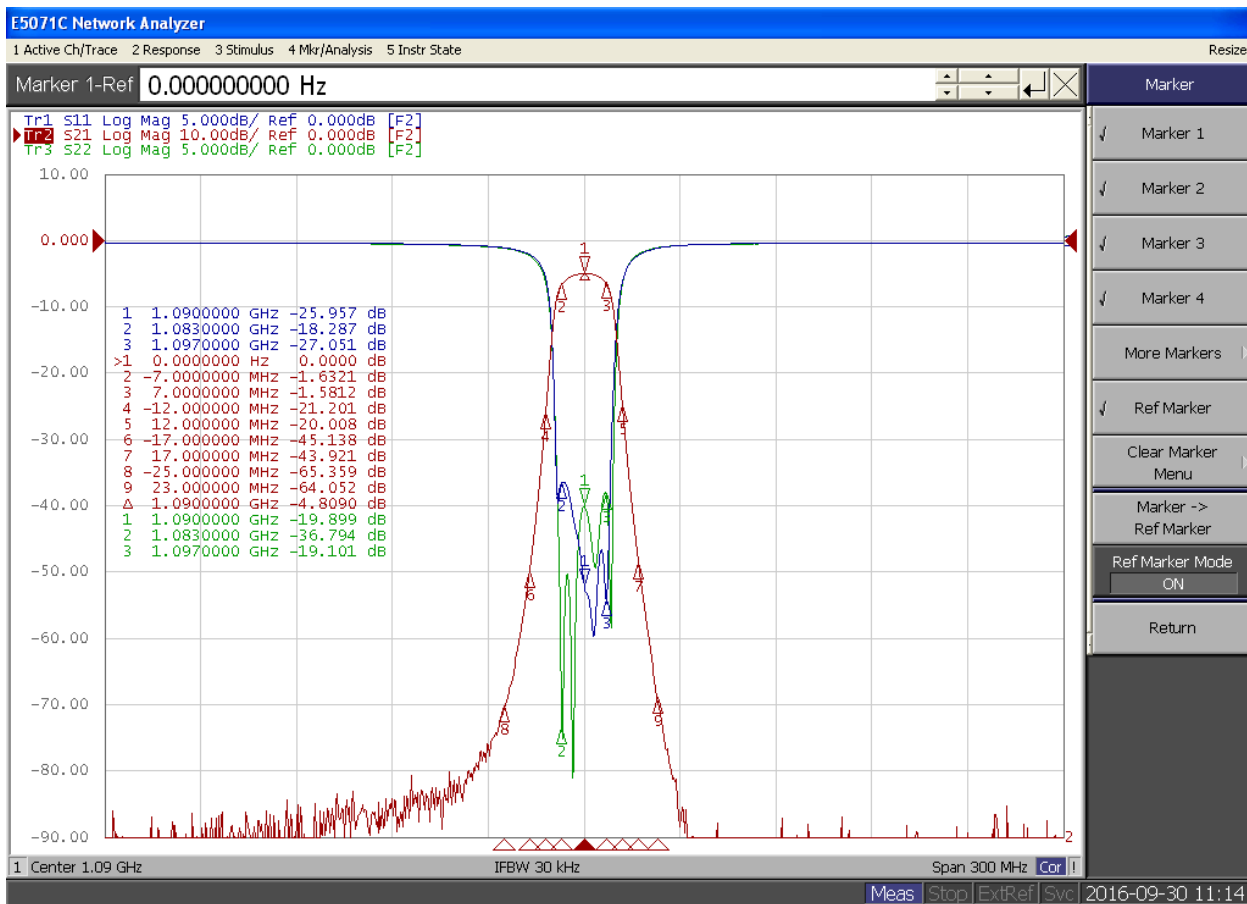
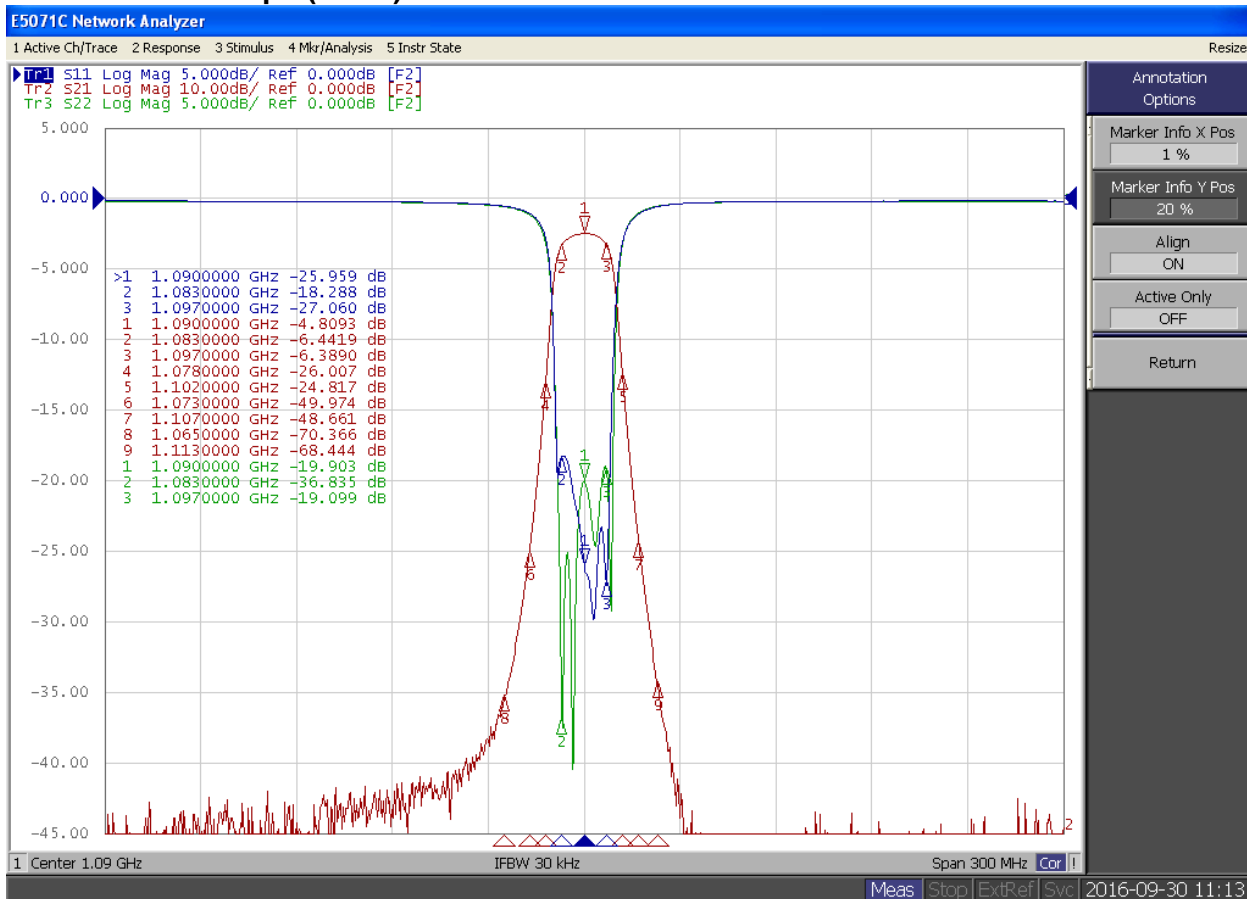


**Reflow Soldering Profile**

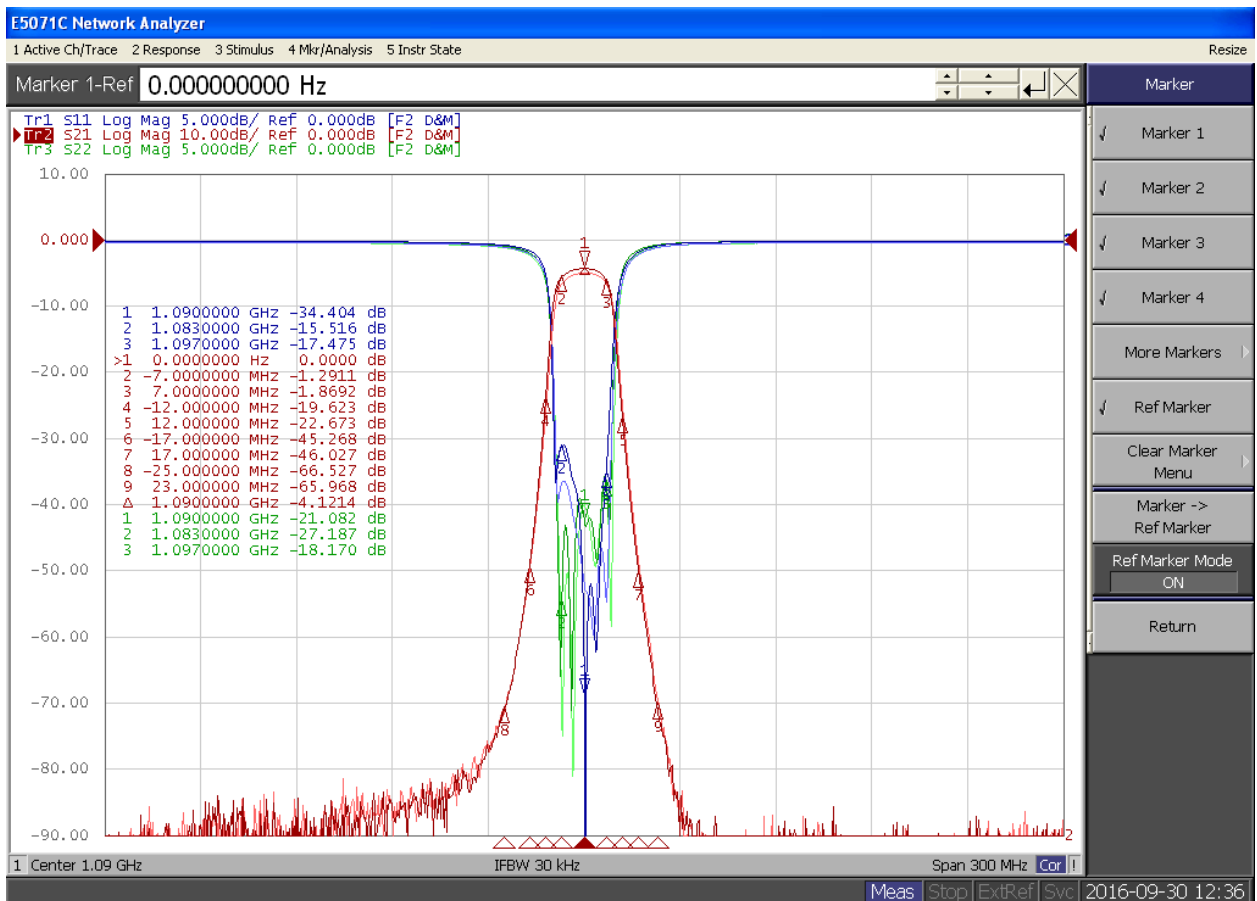
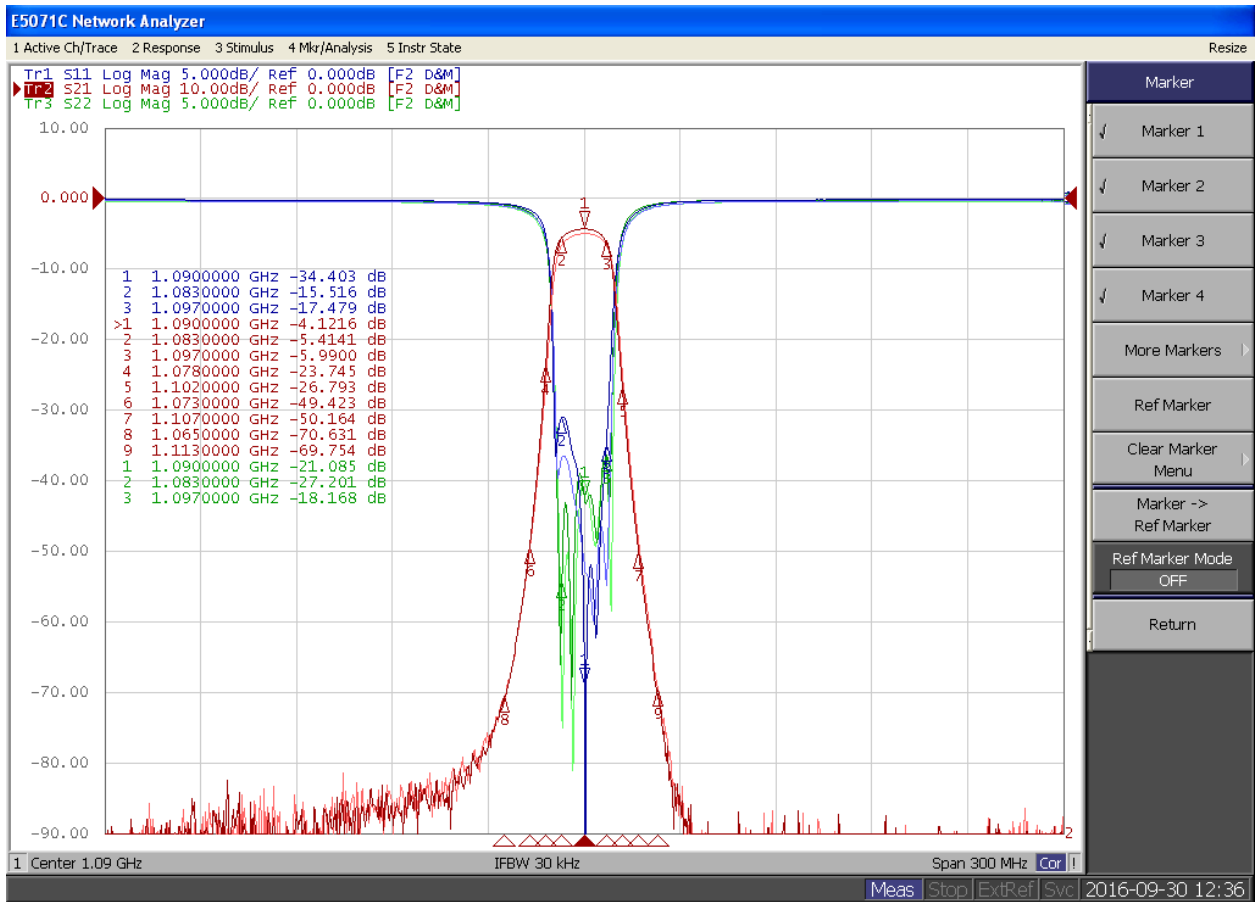


-Pb free solder  
 SN 96.5%, AG3.5% CU 0.5%

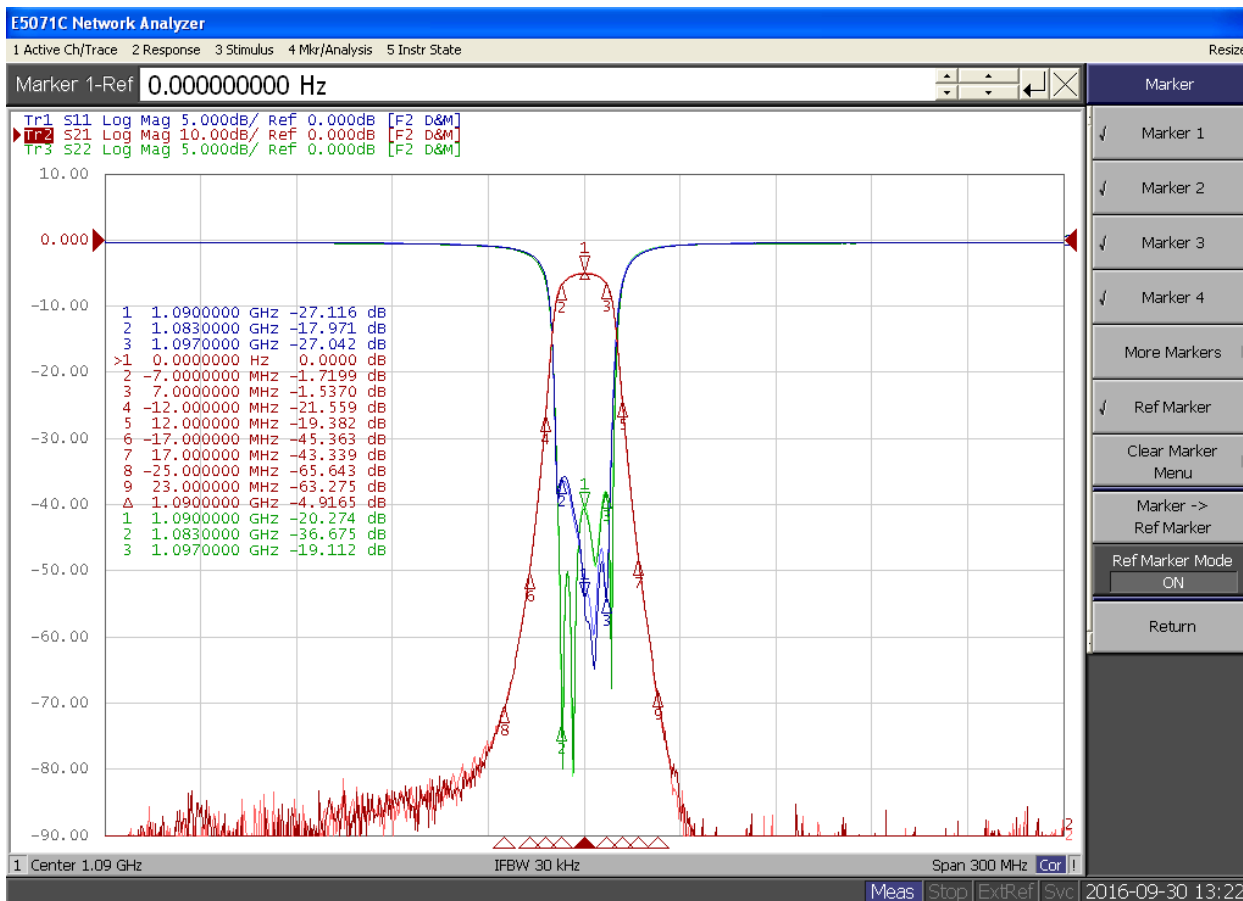
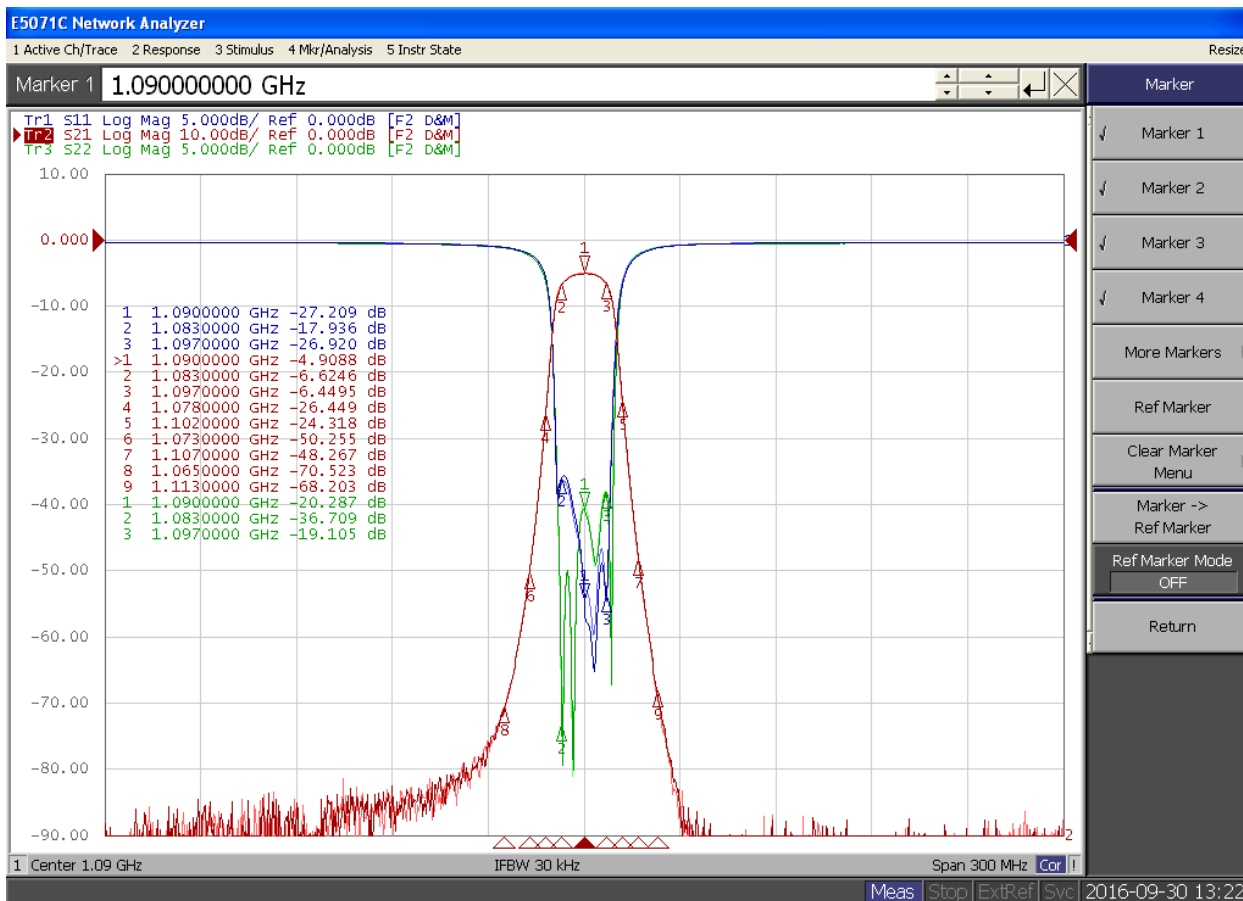
### 5. Performance Graph (+25°C)



-40°C



+65°C



+85°C

