

# SPECIFICATION

COMMERCIALY AVAILABLE

ITEM: DIELECTRIC CERAMIC FILTER

PART NUMBER: CF-09000705

REVISED 6/12/08 – ADDED GROUP DELAY PLOT  
REVISED 8/13/08 – CHANGED OPERATING TEMP  
REVISED 7/31/09 ADDED REFLOW

Prepared By:

Revised By:KN

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED

**FILTRONETICS Inc**

**1. APPLICATION**

THIS SPECIFICATION APPLIES TO BAND PASS FILTER USING DIELECTRIC RESONATORS.

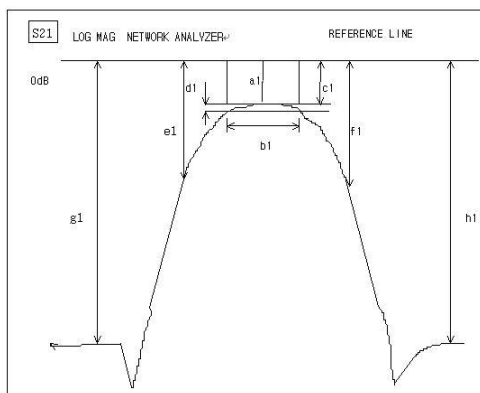
**2. PART NUMBER**

PART NO	CF-09000705
PACKAGING	PLASTIC TRAY

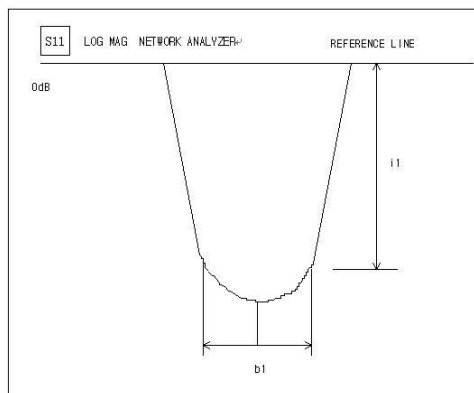
**3. SPECIFICATIONS**

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	900 MHz
2	Pass Band Width (=PB)	-	Fo +/-35Mhz
3	Insertion Loss AT Fo	-	1.6 dB Max
4	Ripple IN PB	-	1.0 dB Max
5	Attenuation [Absolute Value]	At Fo-120MHz	60 dB Min
		-	-
6	Return Loss IN PB	-	12 dB Min
7	Impedance	-	50Ω
8	Maximum Input Power	-	1 W (+30dBm)
9	Operating Temperature Range	-	-40 ~ +85 °C

**S21 LOG MAG NETWORK ANALYZER**



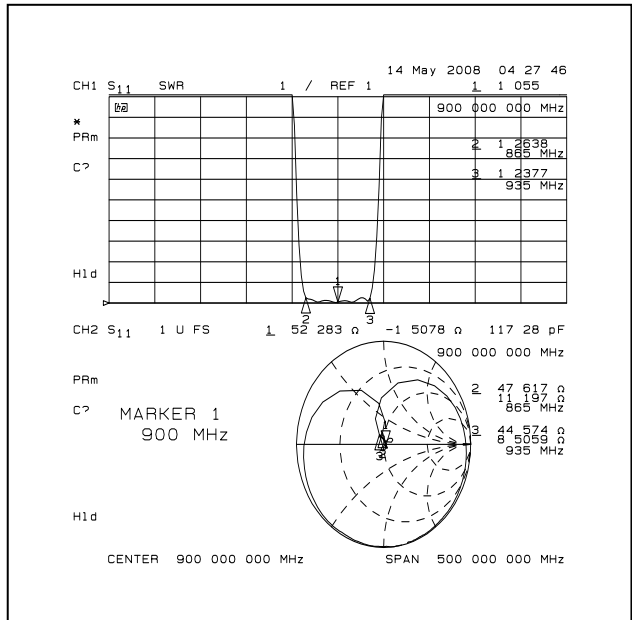
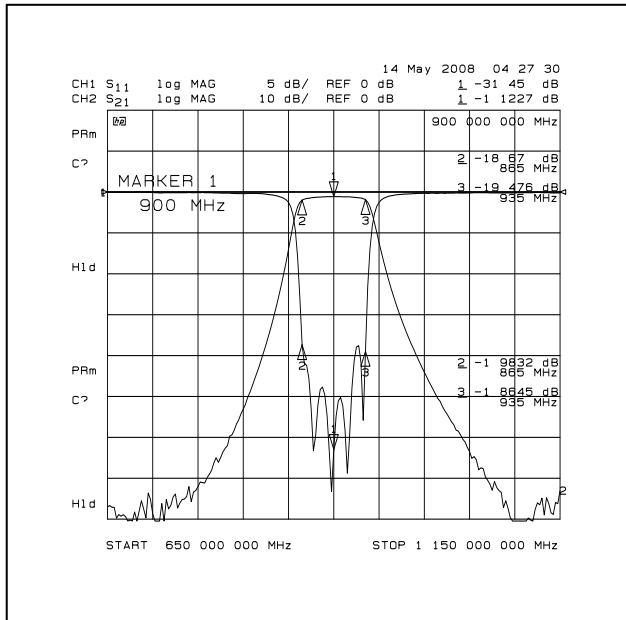
**S11 LOG MAG NETWORK ANALYZER**



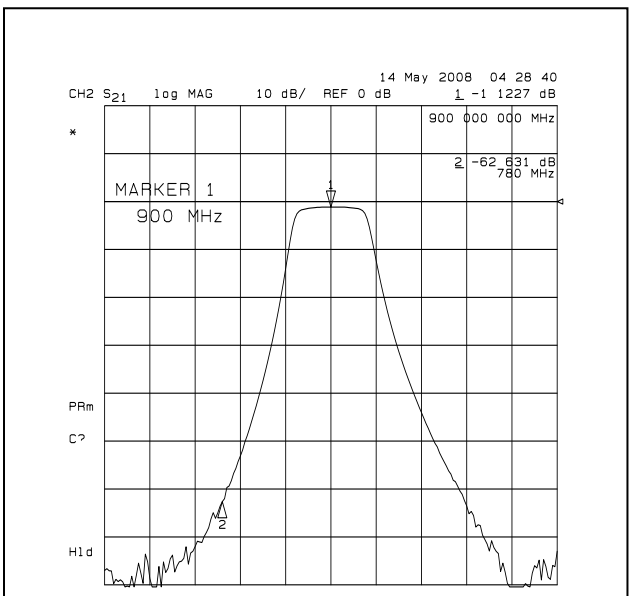
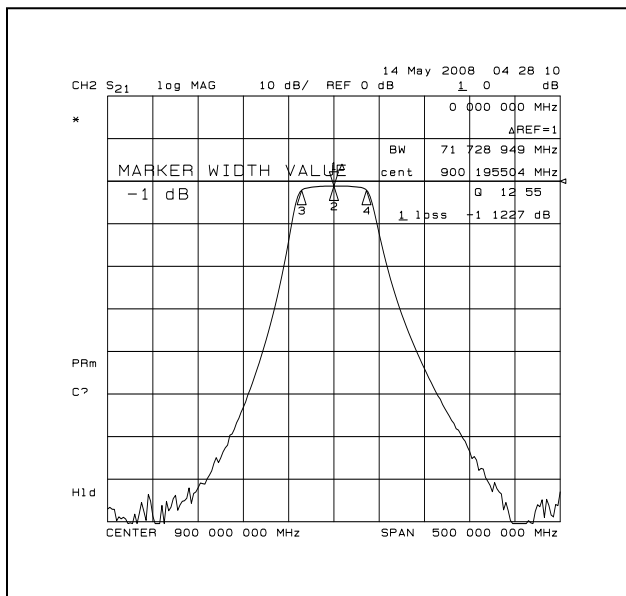


5. GRAPHS

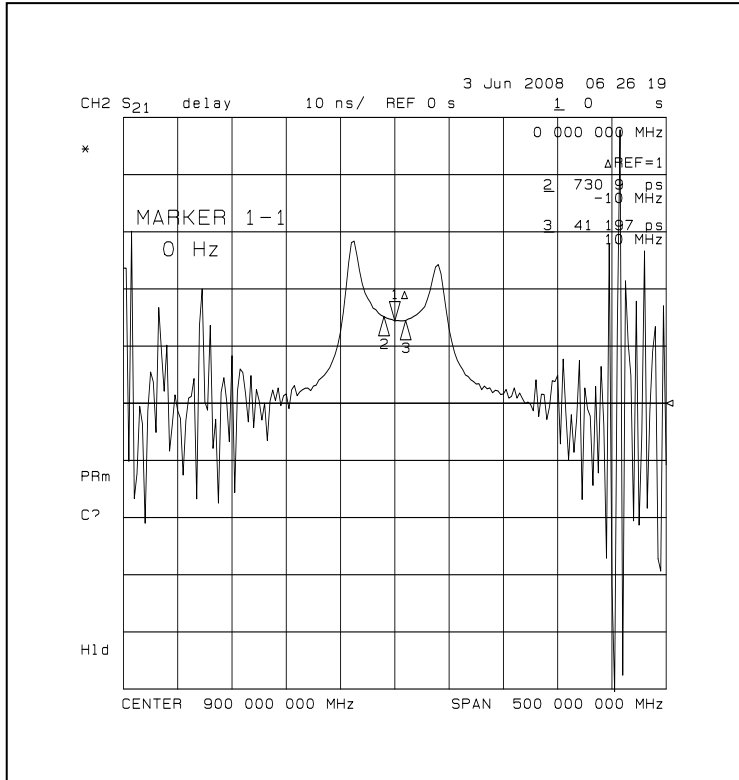
S21 vs. S11 (INSERTION LOSS, RETURN LOSS, V.S.W.R, SMITH CHART)



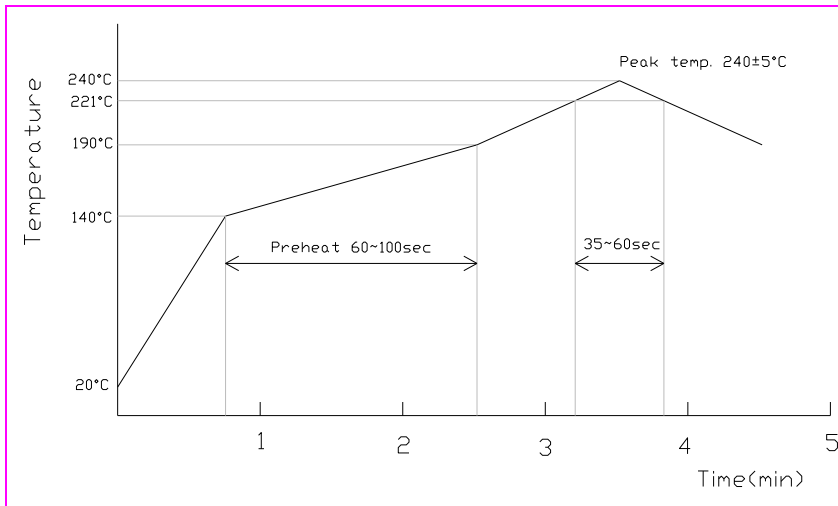
S21 (1DB BAND WIDTH, ATTENUATION)



S21 (GROUP DELAY) -



REFLOW SOLDERING STANDARD CONDITIONS – update July 28,2009



- Measuring point of temperature in-out terminals of the device.
- Reflow Soldering
- Both convection and infrared rays
- Hot air
- Hot plates
- Solder Cream: Sn96/Ag3/Cu0.5