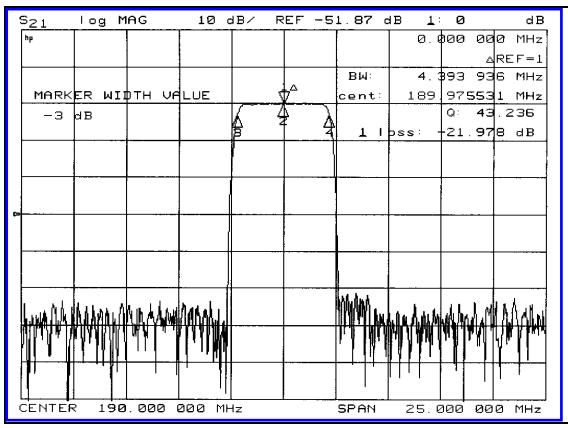
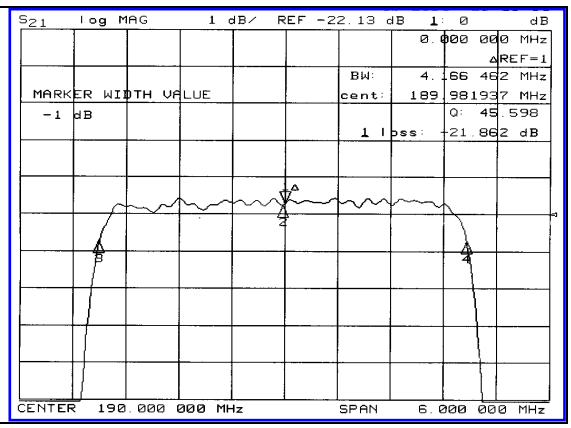
C·TECH

190 MHz Bandpass Filter
4.2 MHz Bandwidth

332412

Typical Performance

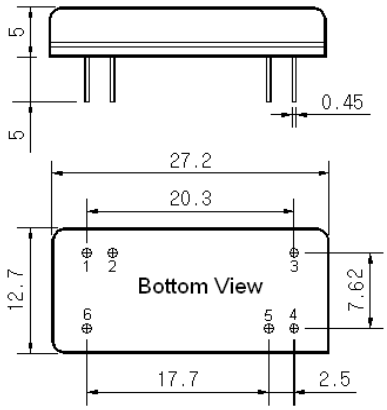




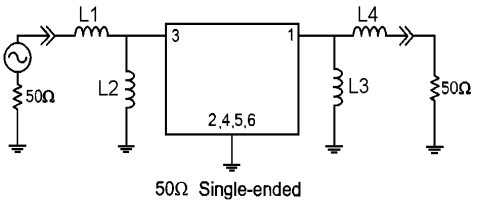
Specification

Parameter	Unit	Min.	Typ.	Max.
Center Frequency	MHz	189.85	190.00	190.15
Insertion Loss	dB	-	22.00	24.00
1dB Bandwidth	MHz	-	4.16	-
3dB Bandwidth	MHz	4.20	4.39	-
40dB Bandwidth	MHz	-	5.20	5.50
Passband Ripple	dB	-	0.55	1.00
Group Delay Variation	nsec	-	120	200
Absolute Delay	μsec	-	2.82	-
Ultimate Attenuation	dB	50	53	
Substrate Material	-	Quartz		
Temperature Coefficient	ppm/°C^2	-0.03		

Package Dimension



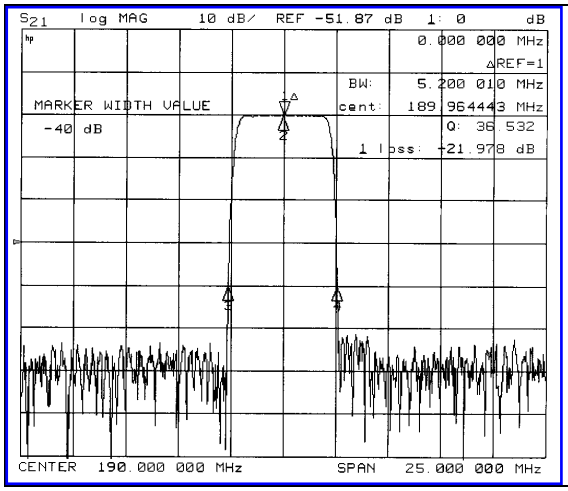
Matching Configuration

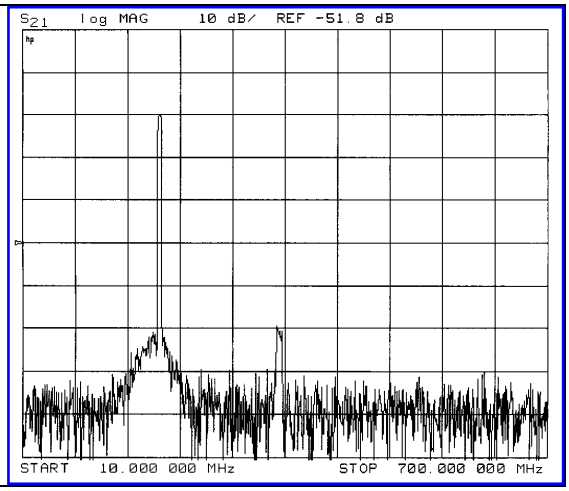


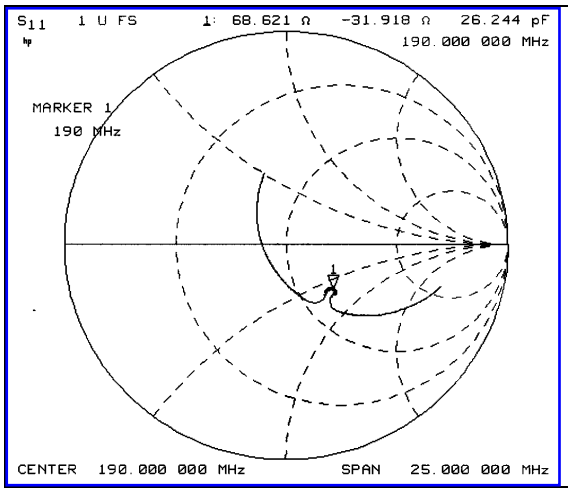
L1=L4=68nH, L2=27nH, L3=56nH
Source / Load Impedance = 50Ω
Ambient Temperature = 25°C

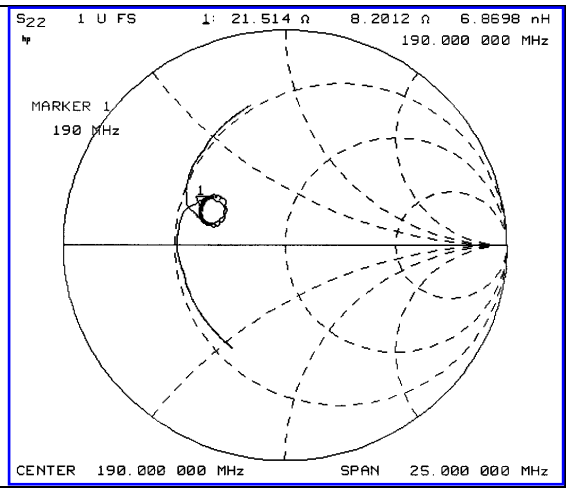
02/28/2006

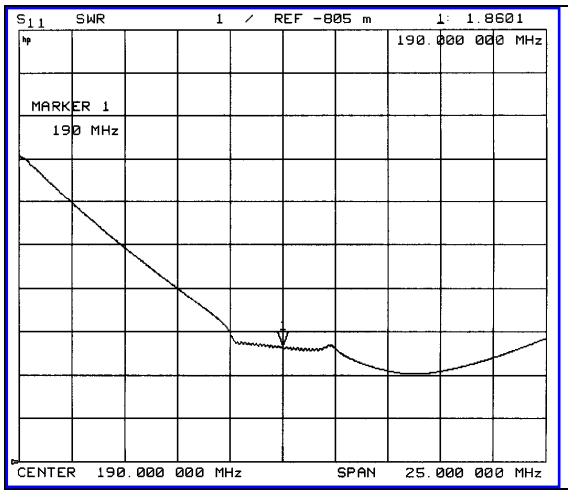
C-TECH CO., LTD. TEL : **82-31-703-2086** FAX : **82-31-703-2124**

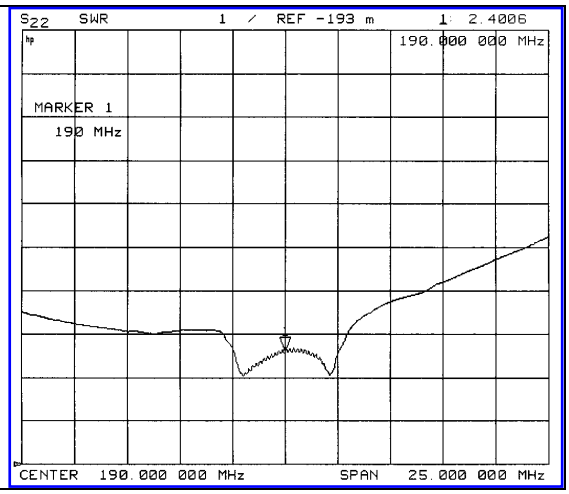

S21 log MAG 10 dB/ REF -51.87 dB 1: 0 dB
0.000 000 MHz
ΔREF=1
BW: 5.200 010 MHz
cent: 189.964443 MHz
Q: 36.532
1 loss: -21.978 dB
MARKER WIDTH VALUE
-40 dB
CENTER 190.000 000 MHz
SPAN 25.000 000 MHz


S21 log MAG 10 dB/ REF -51.8 dB
START 10.000 000 MHz
STOP 700.000 000 MHz


S11 1 U FS 1: 68.621 Ω -31.918 Ω 26.244 pF
190.000 000 MHz
MARKER 1
190 MHz
CENTER 190.000 000 MHz
SPAN 25.000 000 MHz


S22 1 U FS 1: 21.514 Ω 8.2012 Ω 6.8698 nH
190.000 000 MHz
MARKER 1
190 MHz
CENTER 190.000 000 MHz
SPAN 25.000 000 MHz


S11 SWR 1 / REF -805 m 1: 1.8601
190.000 000 MHz
MARKER 1
190 MHz
CENTER 190.000 000 MHz
SPAN 25.000 000 MHz


S22 SWR 1 / REF -193 m 1: 2.4006
190.000 000 MHz
MARKER 1
190 MHz
CENTER 190.000 000 MHz
SPAN 25.000 000 MHz