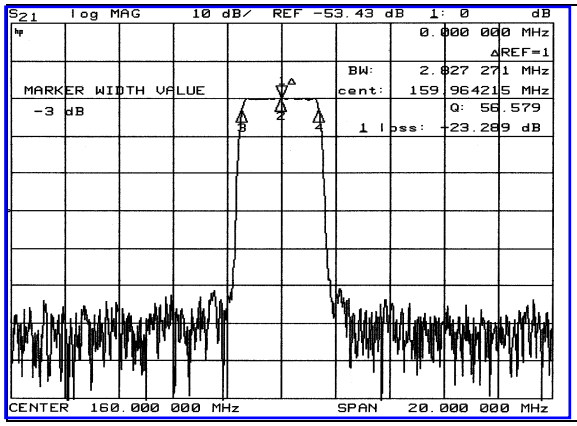
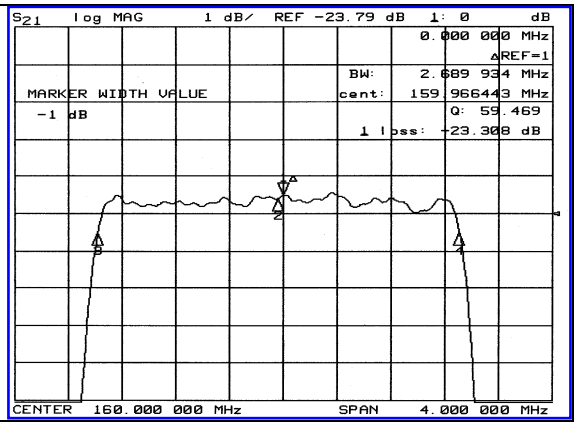
C·TECH

160 MHz Bandpass Filter
2.8 MHz Bandwidth

322263

Typical Performance

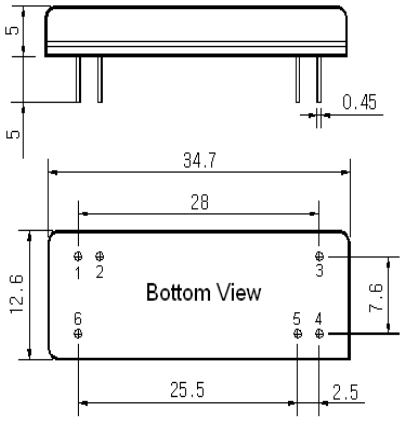




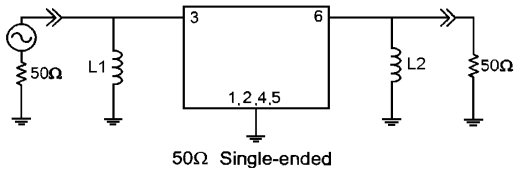
Specification

Parameter	Unit	Min.	Typ.	Max.
Center Frequency	Mhz	159.90	160.00	160.10
Insertion Loss	dB	-	23.50	24.50
1dB Bandwidth	Mhz	2.50	2.68	-
3dB Bandwidth	Mhz	2.70	2.82	-
40dB Bandwidth	Mhz	-	3.35	3.50
50dB Bandwidth	Mhz	-	3.61	-
Passband Ripple (Fo±1.23Mhz)	dB	-	0.60	1.00
Group Delay Variation (Fo±1.23Mhz)	nsec	-	200	300
Absolute Delay	μsec	-	4.4	-
Ultimate Attenuation	dB	50	55	
Substrate Material	-	Quartz		
Temperature Coefficient	ppm/°C^2	-0.03		

Package Dimension



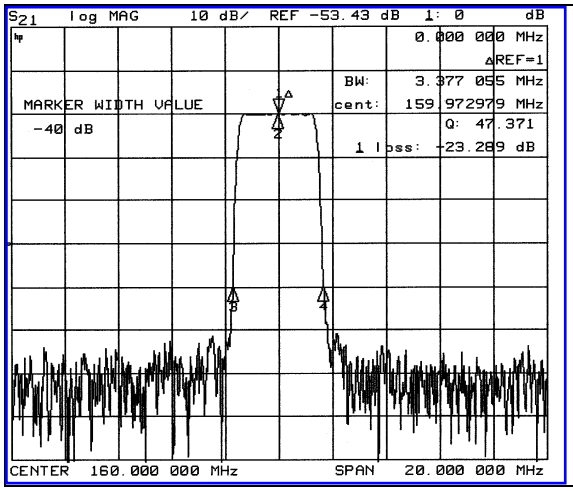
Matching Configuration

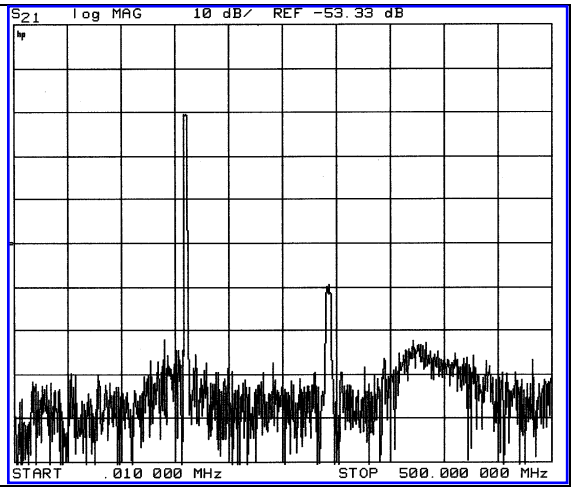


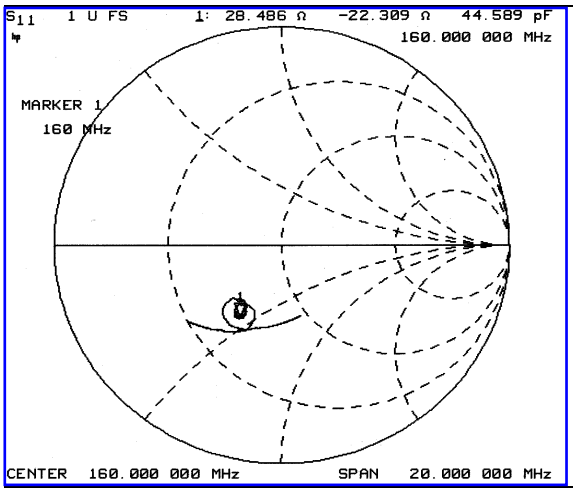
L1=27nH, L2=15nH
Source / Load Impedance = 50Ω
Ambient Temperature = 25°C

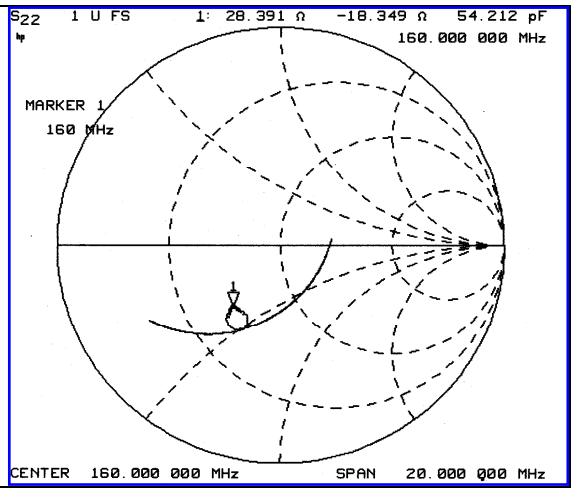
01/22/2005

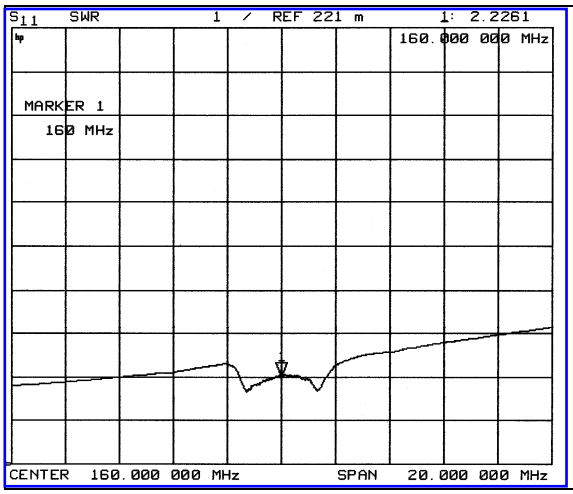
C-TECH CO., LTD. TEL : **82-31-703-2086** FAX : **82-31-703-2124**

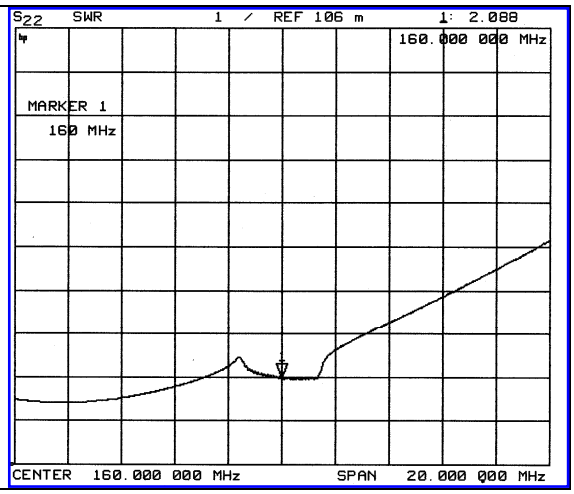

S21 log MAG 10 dB/ REF -53.43 dB 1: 0 dB
0.000 000 MHz
ΔREF=1
BW: 3.377 055 MHz
MARKER WIDTH VALUE
cent: 159.972979 MHz
-40 dB
Q: 47.371
1 loss: -23.289 dB
CENTER 160.000 000 MHz
SPAN 20.000 000 MHz


S21 log MAG 10 dB/ REF -53.33 dB
START .010 000 MHz
STOP 500.000 000 MHz


S11 1 U FS 1: 28.486 Ω -22.309 Ω 44.589 pF
160.000 000 MHz
MARKER 1
160 MHz
CENTER 160.000 000 MHz
SPAN 20.000 000 MHz


S22 1 U FS 1: 28.391 Ω -18.349 Ω 54.212 pF
160.000 000 MHz
MARKER 1
160 MHz
CENTER 160.000 000 MHz
SPAN 20.000 000 MHz


S11 SWR 1 / REF 221 m 1: 2.2261
160.000 000 MHz
MARKER 1
160 MHz
CENTER 160.000 000 MHz
SPAN 20.000 000 MHz


S22 SWR 1 / REF 106 m 1: 2.088
160.000 000 MHz
MARKER 1
160 MHz
CENTER 160.000 000 MHz
SPAN 20.000 000 MHz