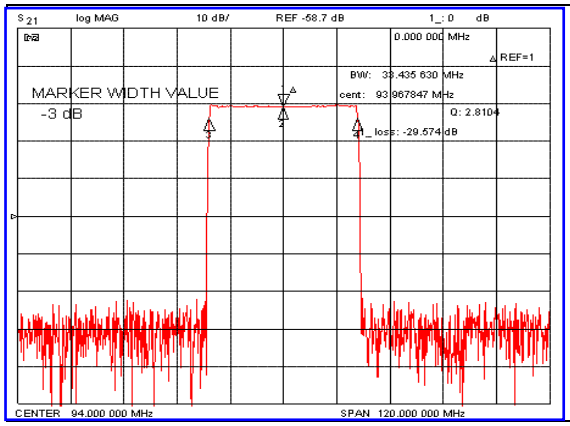
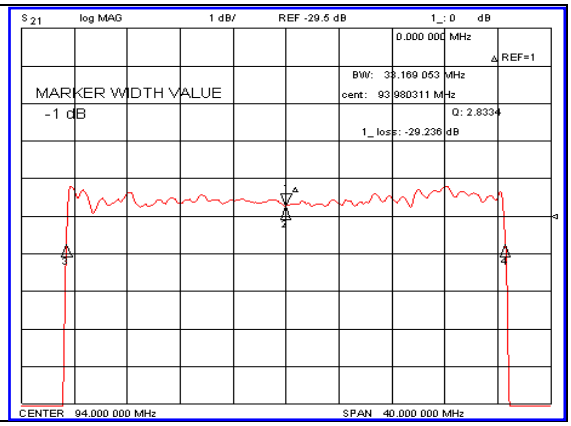
C·TECH

94 MHz Bandpass Filter
33.4 MHz Bandwidth

Preliminary

Typical Performance

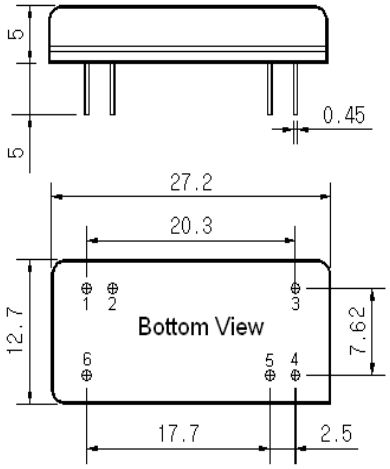




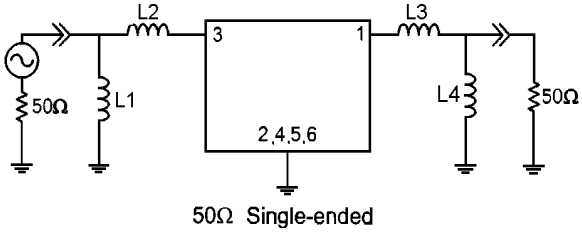
Specification

Parameter	Unit	Min.	Typ.	Max.
Center Frequency	MHz	93.90	94.00	94.10
Insertion Loss	dB	-	29.60	31.00
1dB Bandwidth	MHz	-	33.16	-
3dB Bandwidth	MHz	33.30	33.43	-
40dB Bandwidth	MHz	-	34.75	35.00
Passband Ripple	dB	-	0.70	1.00
Group Delay Variation	nsec	-	30	50
Absolute Delay	μsec	-	2.32	-
Ultimate Attenuation	dB	50	55	
Substrate Material	-	128-$LiNbO_3$		
Temperature Coefficient	ppm/°C	-72		

Package Dimension



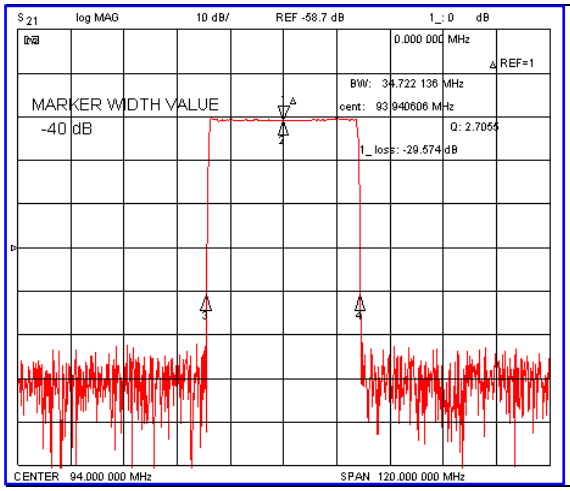
Matching Configuration

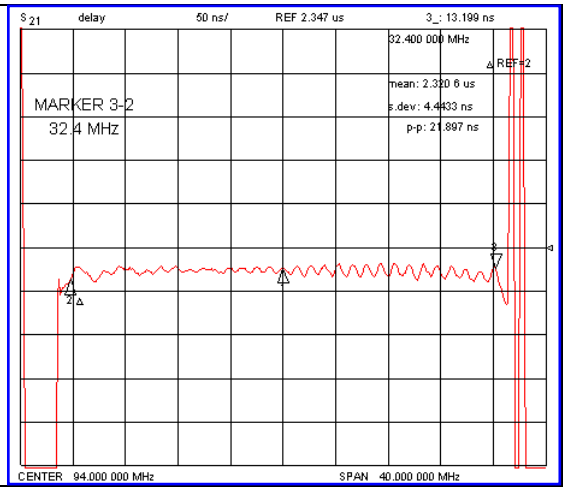


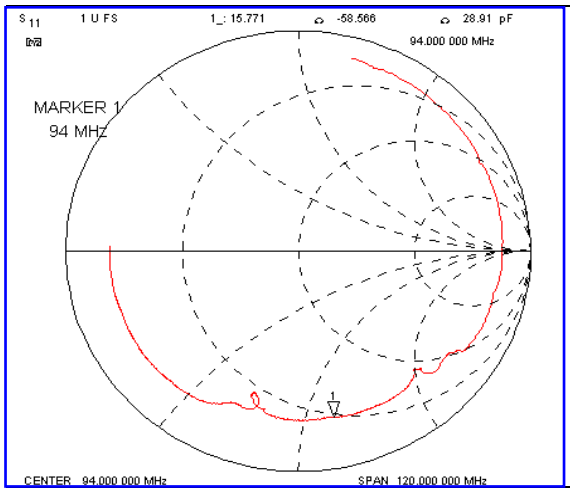
L1=L4=220nH, L3=33nH, L4=39nH
Source / Load Impedance = 50Ω
Ambient Temperature = 25°C

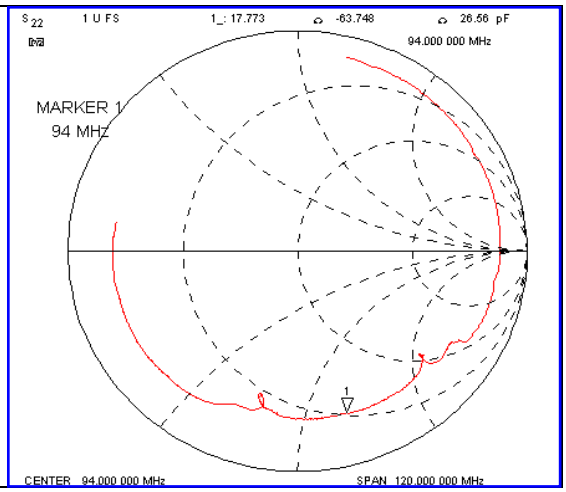
Rev0. 070619

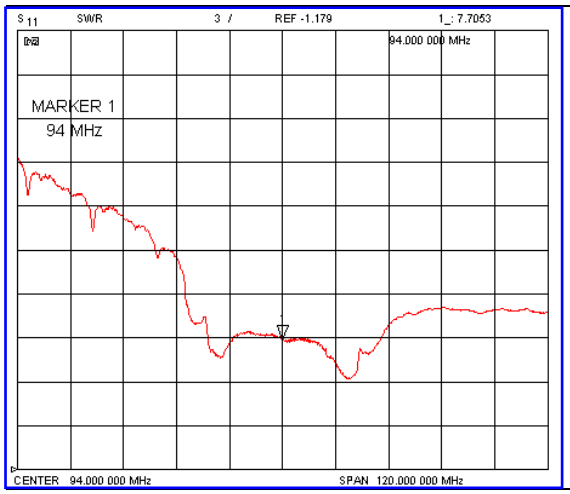
C-TECH CO., LTD. TEL : **82-31-703-2086** FAX : **82-31-703-2124**

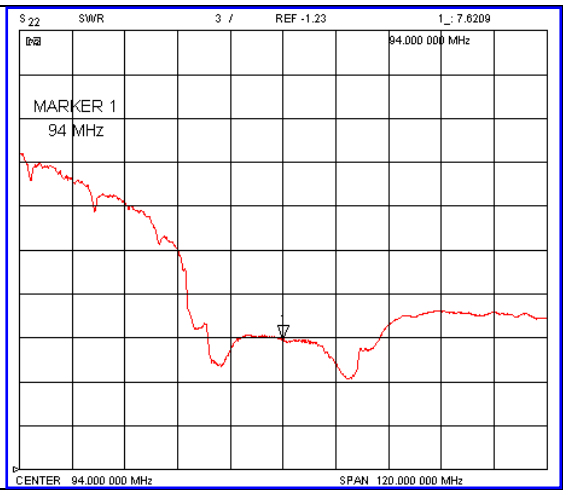

S 21 log MAG 10 dB/ REF -58.7 dB 1_: 0 dB
0.000 000 MHz
REF=1
BW: 34.722 136 MHz
cent: 93.940606 MHz
Q: 2.7054
1_ loss: -29.574 dB
MARKER WIDTH VALUE
-40 dB
CENTER 94.000 000 MHz
SPAN 120.000 000 MHz


S 21 delay 50 ns/ REF 2.347 us 3_: 13.199 ns
32.400 000 MHz
REF=2
mean: 2.320 6 us
s.dev: 4.4433 ns
p-p: 21.897 ns
MARKER 3-2
32.4 MHz
CENTER 94.000 000 MHz
SPAN 40.000 000 MHz


S 11 1 U FS 1_: 15.771 -58.566 28.91 pF
94.000 000 MHz
MARKER 1
94 MHz
CENTER 94.000 000 MHz
SPAN 120.000 000 MHz


S 22 1 U FS 1_: 17.773 -63.748 26.56 pF
94.000 000 MHz
MARKER 1
94 MHz
CENTER 94.000 000 MHz
SPAN 120.000 000 MHz


S 11 SWR 3 / REF -1.179 1_: 7.7053
94.000 000 MHz
MARKER 1
94 MHz
CENTER 94.000 000 MHz
SPAN 120.000 000 MHz


S 22 SWR 3 / REF -1.23 1_: 7.6209
94.000 000 MHz
MARKER 1
94 MHz
CENTER 94.000 000 MHz
SPAN 120.000 000 MHz