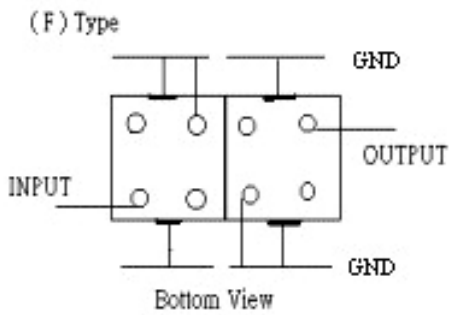
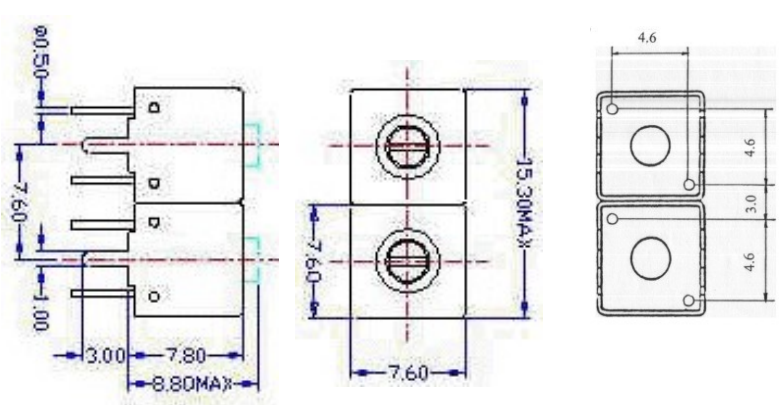


VHF UHF Helical Filter Specification Sheet

Customer Name		Temwell's Part No.	TDS2042F-314M
Approval No. /dated	20102002DC	Acceptable Specify Fo. Range	311~355MHz
Work Instruction No.	20102002DC	Date	2001.03.02

(1)Pin Position	(2)Size Diagram
<p>(F) Type</p>  <p style="text-align: center;">Bottom View</p>	

(3)Electric Character

Item	Specify	Performance
Center Freq.(Fo) +/- 0.5 %	314 MHz	314 MHz
Tunable Range	314±4 MHz	314±4 MHz
Insertion Loss	Typ. 5.0 dB	3.7 dB
-3 dB Bandwidth	Typ. 9.0 MHz	12 MHz
Sensitivity (Attenuation)	Fo - 25 MHz	Typ. 21 dBc
	Fo + 25 MHz	Typ. 14 dBc
	Fo - ()MHz	Typ. dBc
	Fo +()MHz	Typ. dBc
Return Loss	Min. 12 dB	25 dB
Ripple	< 1 dB	1 dB
Impedance	In / Out : 50 Ω	In / Out : 50 Ω
(4)Torque for Tuning Screw	> 100gf • cm	

(5)Temperature Condition:

Operating Temperature	0°C ~ +60°C
Storage Temperature	-20°C ~ +70°C

(6)Input Power

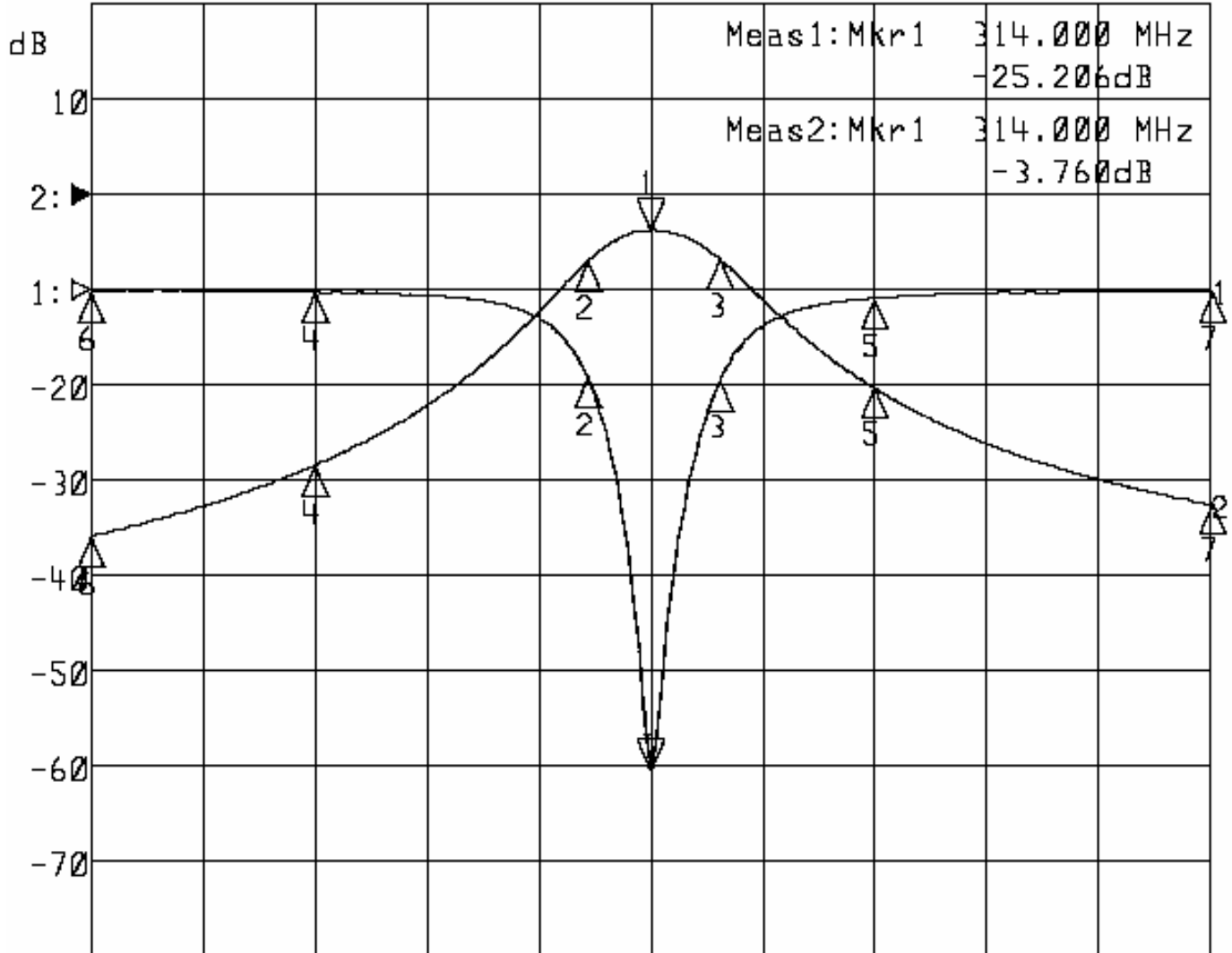
Approval	Supervisor	Designer	Aperture size
C.Y.Chang	C.S.Chang	C.S.Chang	7S2S(4*3.5) 7S00LB4

TEMWELL CORPORATION

Performance-TDS2042F-314M

20102002DC

▶1: S11 Refl Port1 Log Mag 5.0 dB/ Ref 0.00 dB C
 ▶2: S21 Fwd Trans Log Mag 10.0 dB/ Ref 0.00 dB C



Center 314.000 MHz

Span 100.000 MHz

1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 314.0000	-25.206	1> 314.0000	-3.760
2: 308.4667	-4.686	2: 308.4667	-6.915
3: 320.1667	-4.807	3: 320.1667	-6.718
4: 284.0000	-0.133	4: 284.0000	-28.463
5: 334.0000	-0.453	5: 334.0000	-20.334
6: 264.0000	-0.099	6: 264.0000	-35.898
7: 364.0000	-0.080	7: 364.0000	-32.562