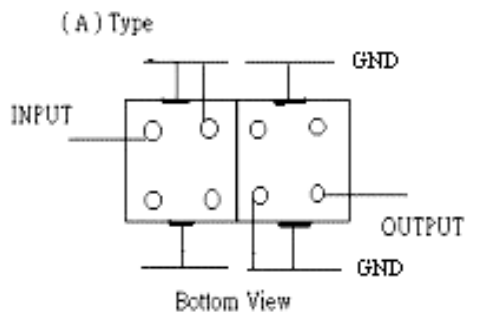
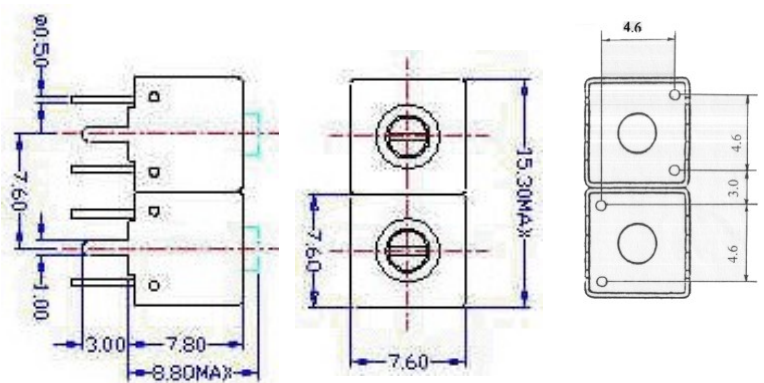


VHF UHF Helical Filter Specification Sheet

Customer Name		Temwell's Part No.	TDS2161A-836.5M
Approval No. /dated	20107019DB	Acceptable Specify Fo. Range	831~860MHz
Work Instruction No.	20107019DB	Date	2001.07.09

<p>(1) Pin Position</p>  <p>(A) Type INPUT GND OUTPUT GND Bottom View</p>	<p>(2) Size Diagram</p>  <p>Dimensions shown: Side view: 90.50, 7.60, 1.00, 3.00, 7.80, 8.80MAX Top view: 7.60, 15.30MAX Front view: 4.6, 3.0, 4.6, 4.6</p>
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(3) Electric Character

Item	Specify	Performance	
Center Freq.(Fo) +/- 0.5 %	836.5 MHz	836.5 MHz	
Tunable Range	836.5±10 MHz	836.5±10 MHz	
Insertion Loss	Typ. 3.0 dB	2.0 dB	
-3 dB Bandwidth	Typ. 21 MHz	26 MHz	
Sensitivity (Attenuation)	Fo - 50 MHz	Typ. 20 dBc	23 dBc
	Fo + 50 MHz	Typ. 18 dBc	21 dBc
	Fo - ()MHz	Typ. dBc	dBc
	Fo +()MHz	Typ. dBc	dBc
Return Loss	Min. 12 dB	32 dB	
Ripple	< 1 dB	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 > 1Watt

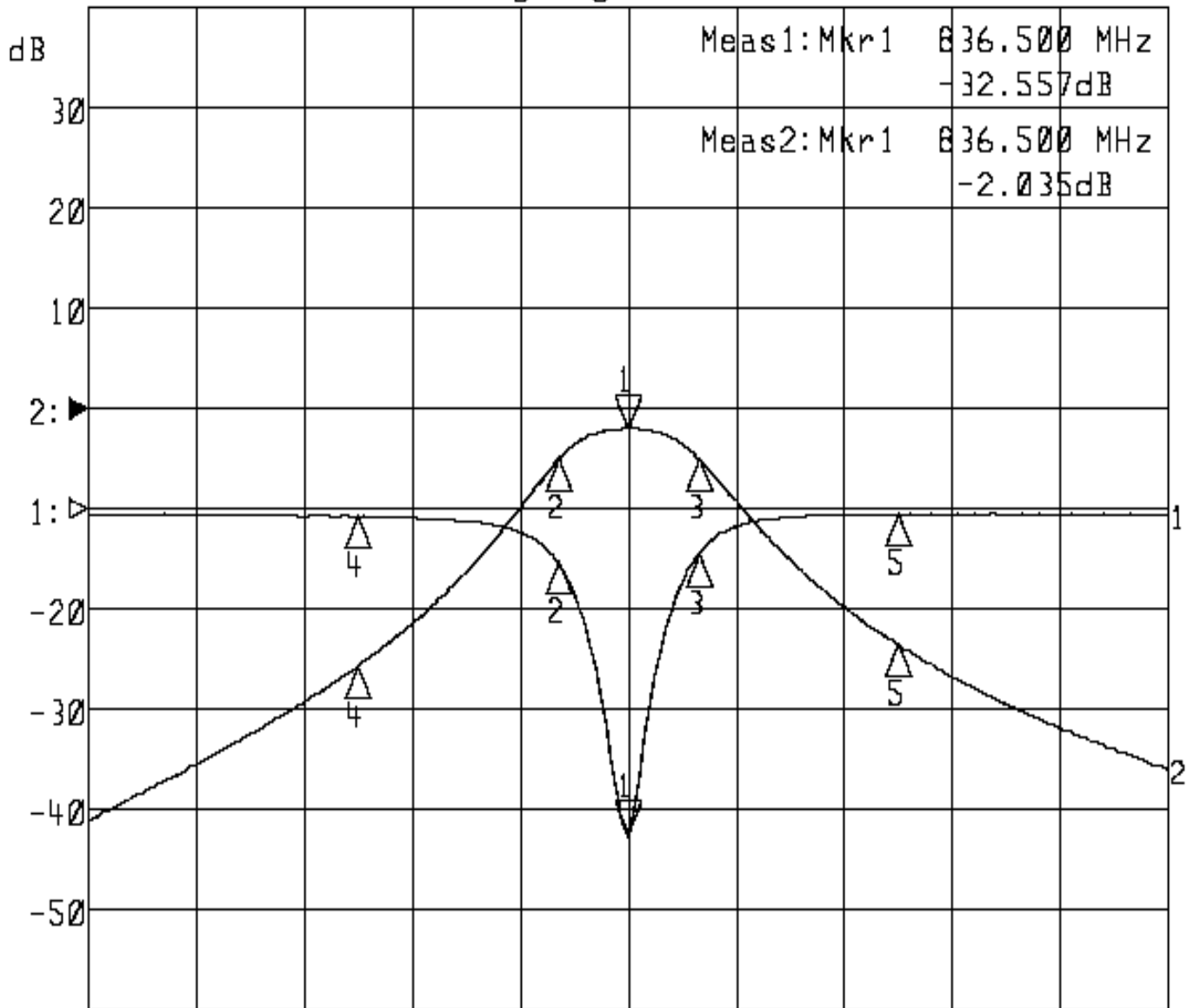
Approval	Supervisor	Designer	Aperture size
C.Y.Chang	C.S.Chang	C.S.Chang	7S2S(4*5.2) 7S046LB4

TEMWELL CORPORATION

Performance-TDS2161A-836.5M

20107019DB

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



Center 836.500 MHz

Span 200.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1> 836.5000	-32.557	1> 836.5000	-2.035
2: 823.5667	-5.362	2: 823.5667	-5.065
3: 849.6333	-4.447	3: 849.6333	-5.052
4: 786.5000	-0.834	4: 786.5000	-25.689
5: 886.5000	-0.571	5: 886.5000	-23.556