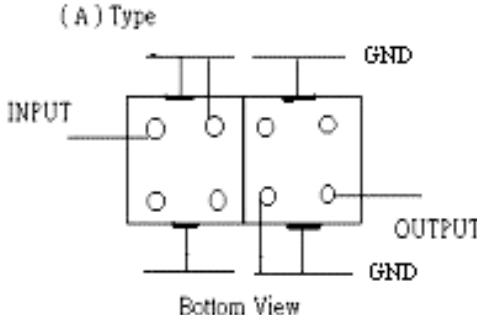
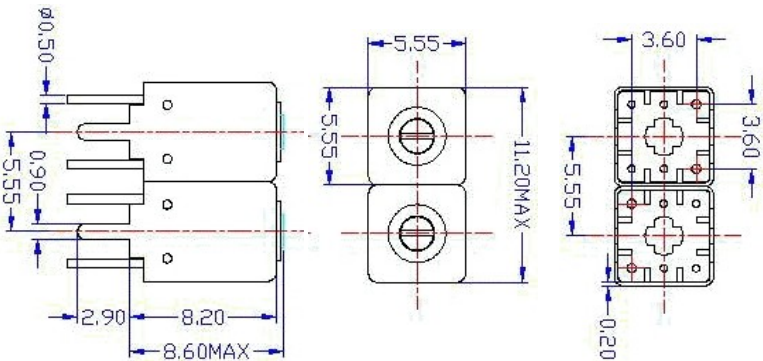


# VHF UHF Helical Filter Specification Sheet

Customer Name		Temwell's Part No.	TDW2453A-510M
Approval No. /dated	20111007DC	Acceptable Specify Fo. Range	501~550MHz
Work Instruction No.	20111007DC	Date	Nov.07.2001

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

Item	Specify	Performance	
Center Freq.(Fo) +/- 0.5 %	510 MHz	510 MHz	
Tunable Range:	510±5 MHz	510±5 MHz	
Insertion Loss	Typ. 2.0 dB	1.11 dB	
-3 dB Bandwidth	Typ. 27 MHz	32.7 MHz	
Sensitivity (Attenuation)	Fo - 50 MHz	Typ. 12 dBc	15 dBc
	Fo + 50 MHz	Typ. 16 dBc	19 dBc
	Fo - ( )MHz	Typ. dBc	dBc
	Fo +( )MHz	Typ. dBc	dBc
Return Loss	Min. 12 dB	18 dB	
Ripple	< 1 dB	dB	
Impedance	In / Out : 50 Ω	In / Out : 50 Ω	

(4) Torque for Tuning Screw > 60gf • cm

(5) Temperature Condition:

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

(6) Input Power > 0.5Watt

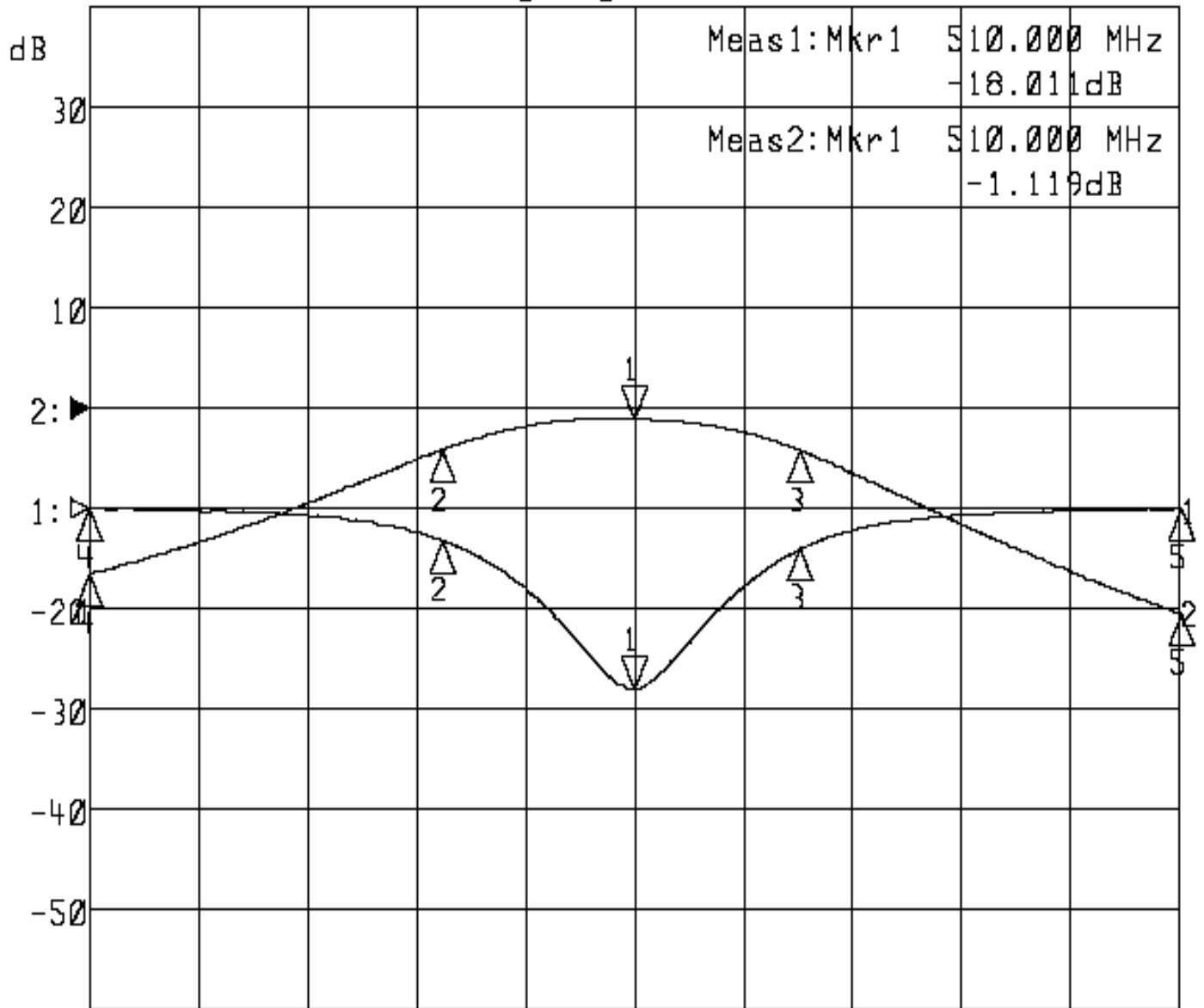
Approval	Supervisor	Designer	Aperture size
C.Y. Chang	C.S. Chang	C.S. Chang	5W2S(3.8*4.7) 5HW024RB3

TEMWELL CORPORATION

# Performance- TDW2453A-510M

## 20111007DC

▶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 510.000 MHz

Span 100.000 MHz

1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 510.0000	-18.011	1> 510.0000	-1.119
2: 492.4000	-3.189	2: 492.4000	-4.136
3: 525.1667	-4.109	3: 525.1667	-4.154
4: 460.0000	-0.022	4: 460.0000	-16.553
5: 560.0000	-0.103	5: 560.0000	-20.494