

# VHF UHF Helical Filter Specification Sheet

Customer Name		Temwell's Part No.	K3RFT-420M-16M
Approval No. /dated	0904114CD	Temwell's Print Name	K3RFT 420M
Work Instruction No.	200904114CD	Date	Apr.27.2009

(1) Pin Position	(2) Size Diagram
<p>(Bottom View)</p>	

(3) Electric Characteristic			
Item	Specify	Performance	
Center Freq.(Fo) +/- 0.5 %	420 MHz	420 MHz	
Tunable Range:	420±3 MHz	420±3 MHz	
Insertion Loss	Typ. 4.0 dB	2.63 dB	
-3 dB Bandwidth	Typ. 16 MHz	21.5 MHz	
Sensitivity (Attenuation)	Fo - 50 MHz	Typ. 32 dBc	64 dBc
	Fo + 50 MHz	Typ. 27 dBc	32 dBc
	Fo - ( )MHz	Typ. dBc	dBc
	Fo +( )MHz	Typ. dBc	dBc
Return Loss	Min. 12 dB	21.0 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			
> 0.5 Watt			

(7) Measuring Circuit: ※Easy to match Impedance S11/S22 50Ω by parallel with about( 0pF) / (0pF).		
<p>(Bottom View)</p>		

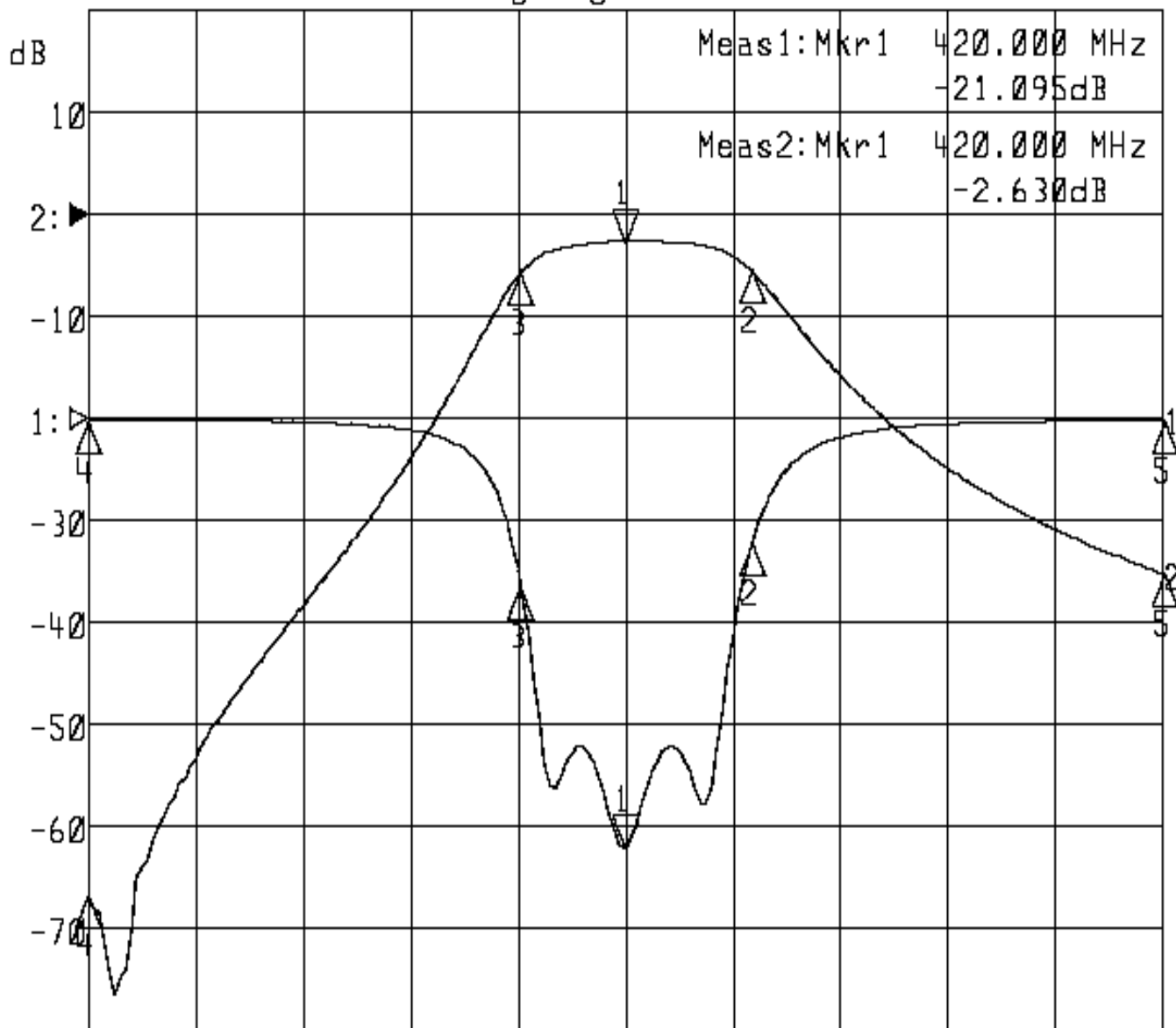
Approval	Supervisor	Designer	Aperture size
C.Y.Chang	C.K.Chang	Y.M.Kang	5R3S(3.8*4.7)(4.73) (5HW024LB3)

TEMWELL CORPORATION

# Performance-K3RFT-420M-16M

## 200904114CD

▶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 420.000 MHz

Span 100.000 MHz

1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 420.0000	-21.095	1> 420.0000	-2.630
2: 431.8000	-6.091	2: 431.8000	-5.607
3: 410.3000	-8.214	3: 410.3000	-5.661
4: 370.0000	-0.070	4: 370.0000	-66.741
5: 470.0000	-0.118	5: 470.0000	-35.283