

VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|------------------------------|-----------------|
| Customer Name | | Temwell's Part No. | TF69555E-814.5M |
| Approval No. /dated | 20307043DB | Acceptable Specify Fo. Range | 801~830MHz |
| Work Instruction No. | 20307043DB | Date | July.30.2003 |

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

(3)Electric Character

| Item | Specify | Performance | |
|------------------------------|-----------------|-----------------|--------|
| Center Freq.(Fo) +/- 0.5 % | 814.5 MHz | 814.5 MHz | |
| Insertion Loss | Typ. 4.0 dB | 2.89 dB | |
| -1 dB Bandwidth | Typ. 18 MHz | 22.6 MHz | |
| -3 dB Bandwidth | Typ. 24 MHz | 29 MHz | |
| Sensitivity (Attenuation) | Fo - 50.5 MHz | Typ. 45 dBc | 48 dBc |
| | Fo + 49.5 MHz | Typ. 39 dBc | 42 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo + ()MHz | Typ. dBc | dBc |
| Return Loss | Min. 12 dB | 18.3 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

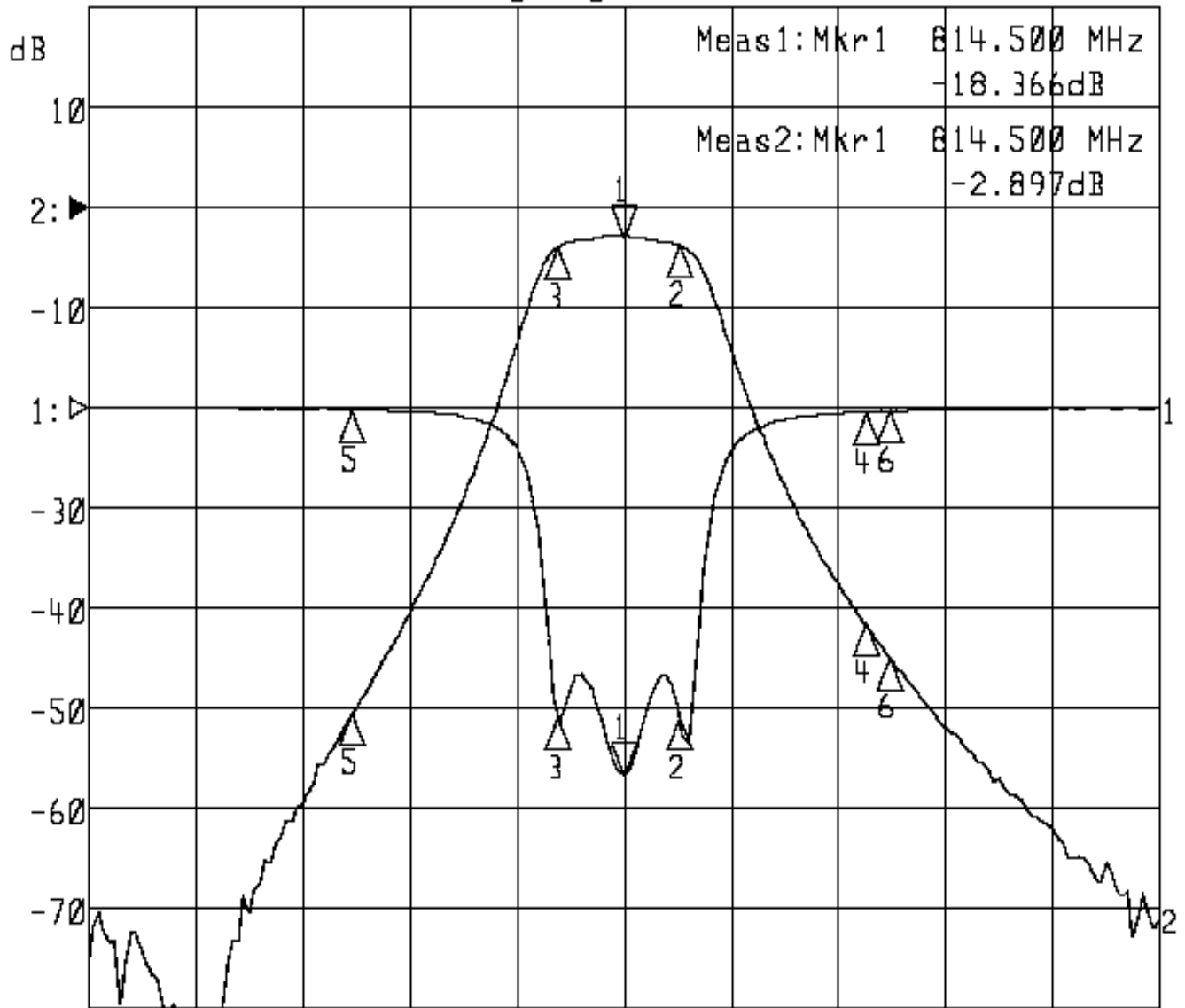
| | | | |
|-----------|------------|-----------|-----------------------------|
| Approval | Supervisor | Designer | Aperture size |
| C.Y.Chang | C.S.Chang | C.S.Chang | 7H4S(4*6.5) 7H046LB4 聚 3 |

TEMWELL CORPORATION

Performance-TF69555E-814.5M

20307043DB

▶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



Meas1:Mkr1 814.500 MHz
 -18.366 dB
 Meas2:Mkr1 814.500 MHz
 -2.897 dB

Center 814.500 MHz

Span 200.000 MHz

| 1:Mkr (MHz) | dB | 2:Mkr (MHz) | dB |
|-------------|---------|-------------|---------|
| 1> 814.5000 | -18.366 | 1> 814.5000 | -2.897 |
| 2: 824.9000 | -15.529 | 2: 824.9000 | -3.812 |
| 3: 802.3000 | -15.439 | 3: 802.3000 | -3.891 |
| 4: 859.5000 | -0.216 | 4: 859.5000 | -41.570 |
| 5: 764.0000 | -0.103 | 5: 764.0000 | -50.555 |
| 6: 864.0000 | -0.177 | 6: 864.0000 | -44.905 |