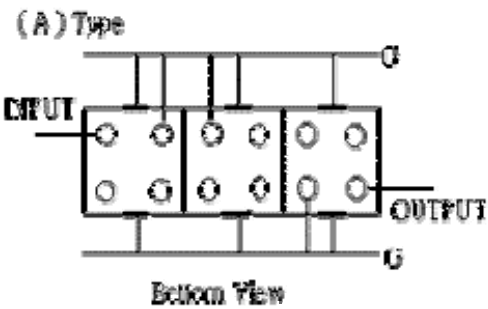
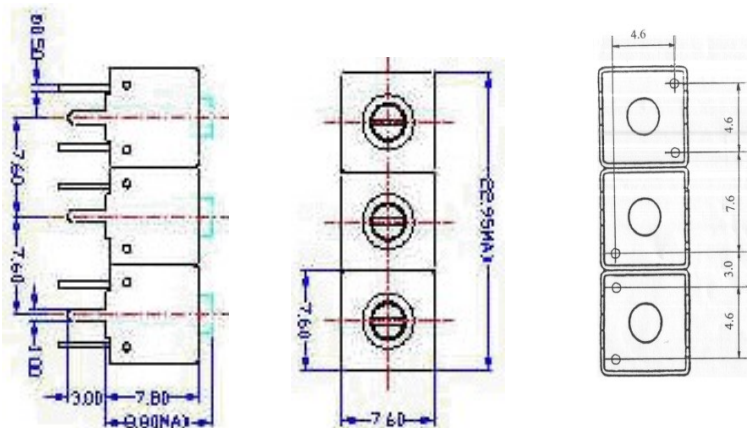


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|------------------------------|-----------------|
| Customer Name | | Temwell's Part No. | TTS3161A-836.5M |
| Approval No. /dated | 20107020DB | Acceptable Specify Fo. Range | 831~860MHz |
| Work Instruction No. | 20107020DB | Date | 2001.07.09 |

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

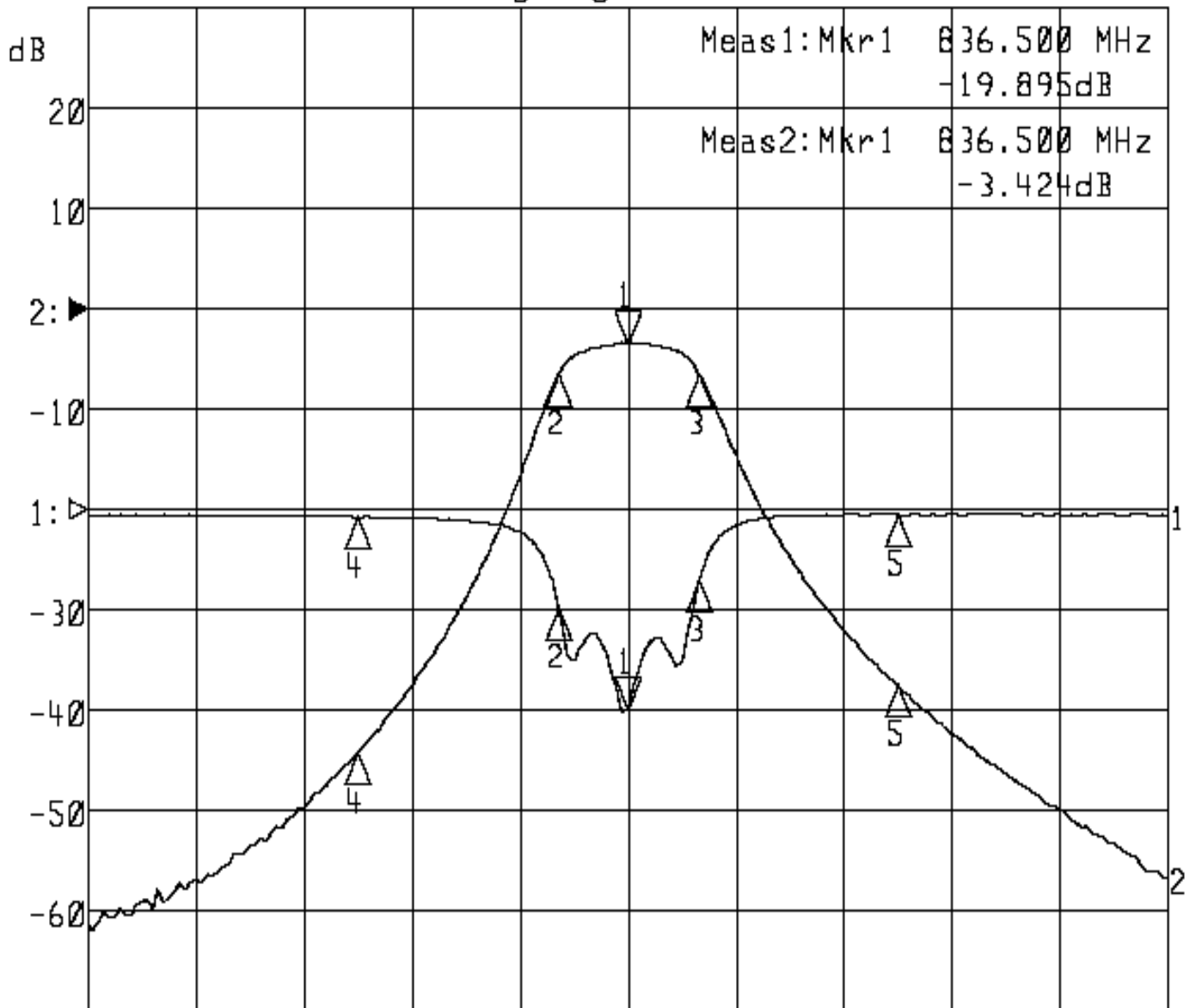
| | | | |
|------------------------------|-------------|-----------------|-------------------------|
| (3) Electric Character | | | |
| Item | | Specify | Performance |
| Center Freq.(Fo) +/- 0.5 % | | 836.5 MHz | 836.5 MHz |
| Tunable Range | | 836.5±10 MHz | 836.5±10 MHz |
| Insertion Loss | | Typ. 4.5 dB | 3.4 dB |
| -3 dB Bandwidth | | Typ. 30 MHz | 34 MHz |
| Sensitivity (Attenuation) | Fo - 50 MHz | Typ. 38 dBc | 41 dBc |
| | Fo + 50 MHz | Typ. 31 dBc | 34 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo +()MHz | Typ. dBc | dBc |
| Return Loss | | Min. 12 dB | 19.8 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 | 7S3S(4*5.2) 7S046LB4 |

TEMWELL CORPORATION

Performance- TTS3161A-836.5M

20107020DB

▶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 | -19.895 | 1> 836.5000 | -3.424 |
| 2: 823.6333 | -9.630 | 2: 823.6333 | -6.457 |
| 3: 849.7000 | -7.060 | 3: 849.7000 | -6.419 |
| 4: 786.5000 | -0.802 | 4: 786.5000 | -44.150 |
| 5: 886.5000 | -0.501 | 5: 886.5000 | -37.589 |