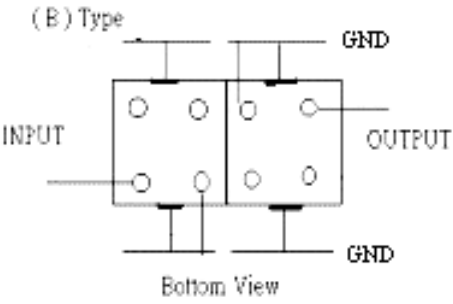
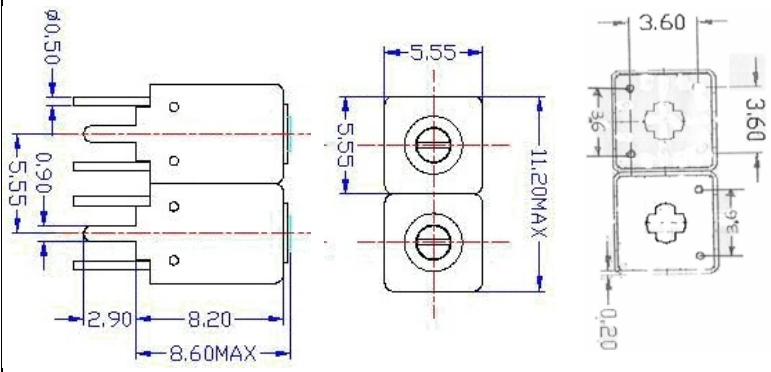


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|------------------------------|---------------|
| Customer Name | | Temwell's Part No. | TDW2509B-800M |
| Approval No. /dated | 20304032DB | Acceptable Specify Fo. Range | 751~800MHz |
| Work Instruction No. | 20304032DB | Date | Apr.24.2003 |

| | |
|--|---|
| (1)Pin Position | (2)Size Diagram |
|  <p>(B) Type INPUT GND OUTPUT GND Bottom View</p> |  <p>Dimensions: $\phi 0.50$, 0.90, 5.55, 2.90, 8.20, 8.60MAX, 5.55, 5.55, 11.20MAX, 3.60, 3.60, 0.20</p> |

(3)Electric Character

| Item | Specify | Performance | |
|------------------------------|-----------------|-----------------|--------|
| Center Freq.(Fo) +/- 0.5 % | 800 MHz | 800 MHz | |
| Tunable Range: | 800±10 MHz | 800±10 MHz | |
| Insertion Loss | Typ. 2.5 dB | 1.82 dB | |
| -3 dB Bandwidth | Typ. 20 MHz | 26.6 MHz | |
| Sensitivity (Attenuation) | Fo - 50 MHz | Typ. 22 dBc | 25 dBc |
| | Fo + 50 MHz | Typ. 16 dBc | 19 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo +()MHz | Typ. dBc | dBc |
| Return Loss | Min. 12 dB | 25.5 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*4.07) 5HW046RB3.2 |

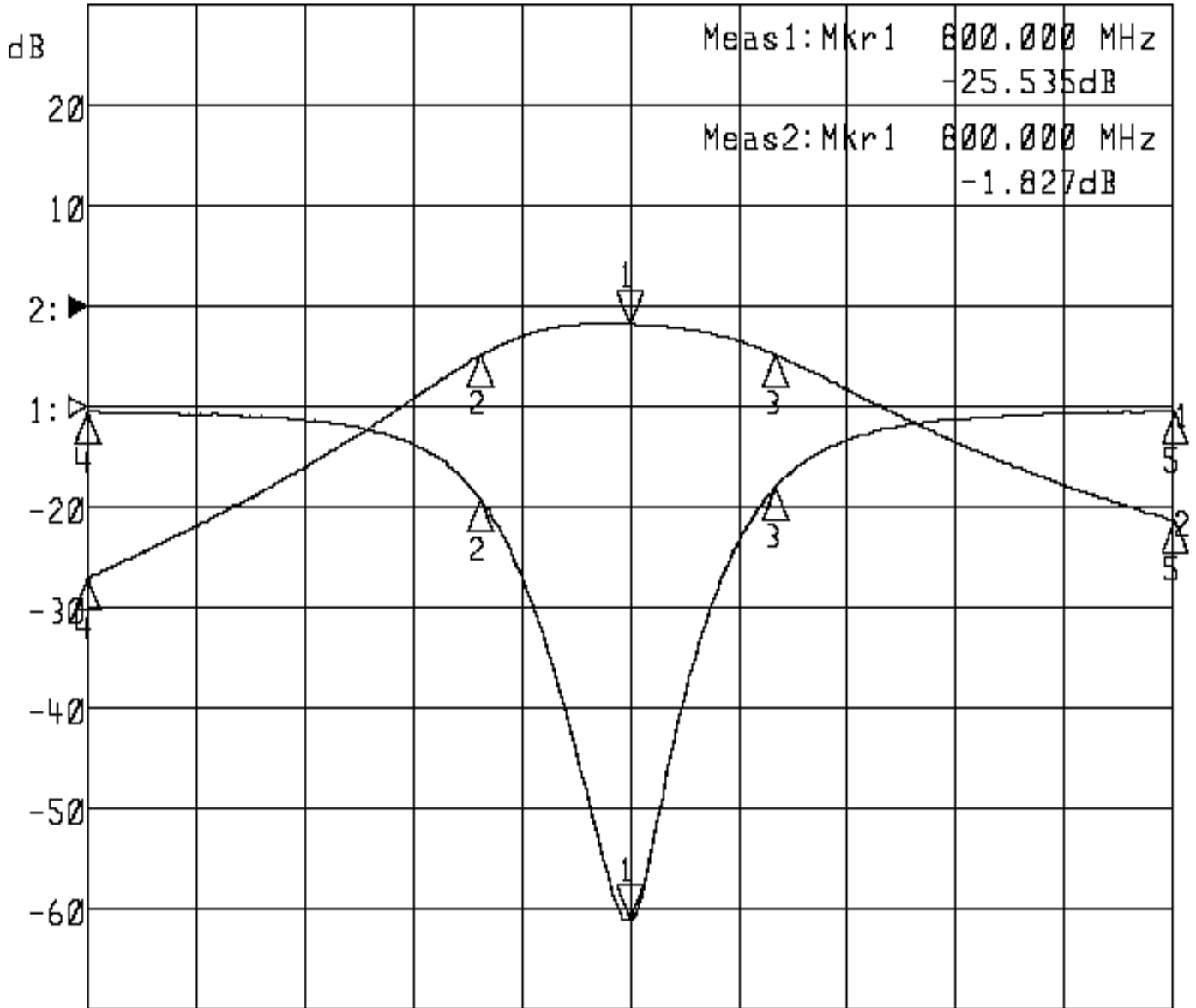
TEMWELL CORPORATION

Performance- TDW2509B-800M

20304032DB

▶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 800.000 MHz

Span 100.000 MHz

| 1:Mkr (MHz) | dB | 2:Mkr (MHz) | dB |
|-------------|---------|-------------|---------|
| 1> 800.0000 | -25.535 | 1> 800.0000 | -1.827 |
| 2: 786.3000 | -4.649 | 2: 786.3000 | -4.829 |
| 3: 813.4667 | -3.969 | 3: 813.4667 | -4.840 |
| 4: 750.0000 | -0.271 | 4: 750.0000 | -27.089 |
| 5: 850.0000 | -0.262 | 5: 850.0000 | -21.317 |