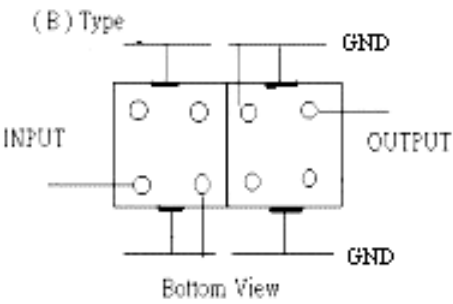
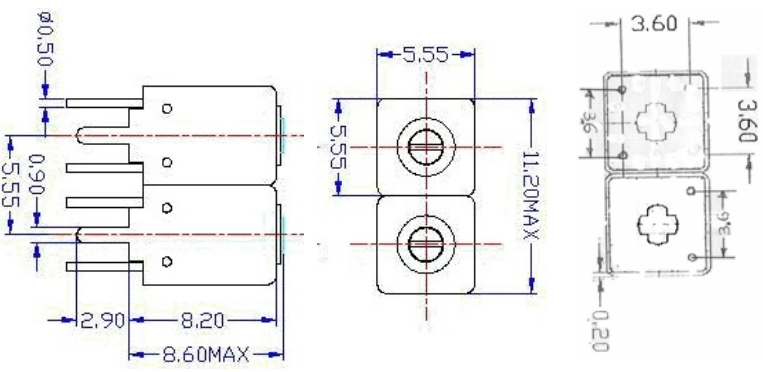


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|------------------------------|---------------|
| Customer Name | | Temwell's Part No. | TDW2489B-707M |
| Approval No. /dated | 20210031DB | Acceptable Specify Fo. Range | 701~750MHz |
| Work Instruction No. | 20210031DB | Date | Oct.31.2002 |

| | |
|---|---|
| <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 % | 707 MHz | 707 MHz | |
| Tunable Range: | 707±5 MHz | 707±5 MHz | |
| Insertion Loss | Typ. 4.5 dB | 3.57 dB | |
| -3 dB Bandwidth | Typ. 10 MHz | 17.2 MHz | |
| Sensitivity (Attenuation) | Fo - 14 MHz | Typ. 7 dBc | 8 dBc |
| | Fo + 14 MHz | Typ. 6 dBc | 7 dBc |
| | Fo - (27)MHz | Typ. 15 dBc | 18 dBc |
| | Fo +(27)MHz | Typ. 12 dBc | 15 dBc |
| Return Loss | Min. 12 dB | 20.3 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

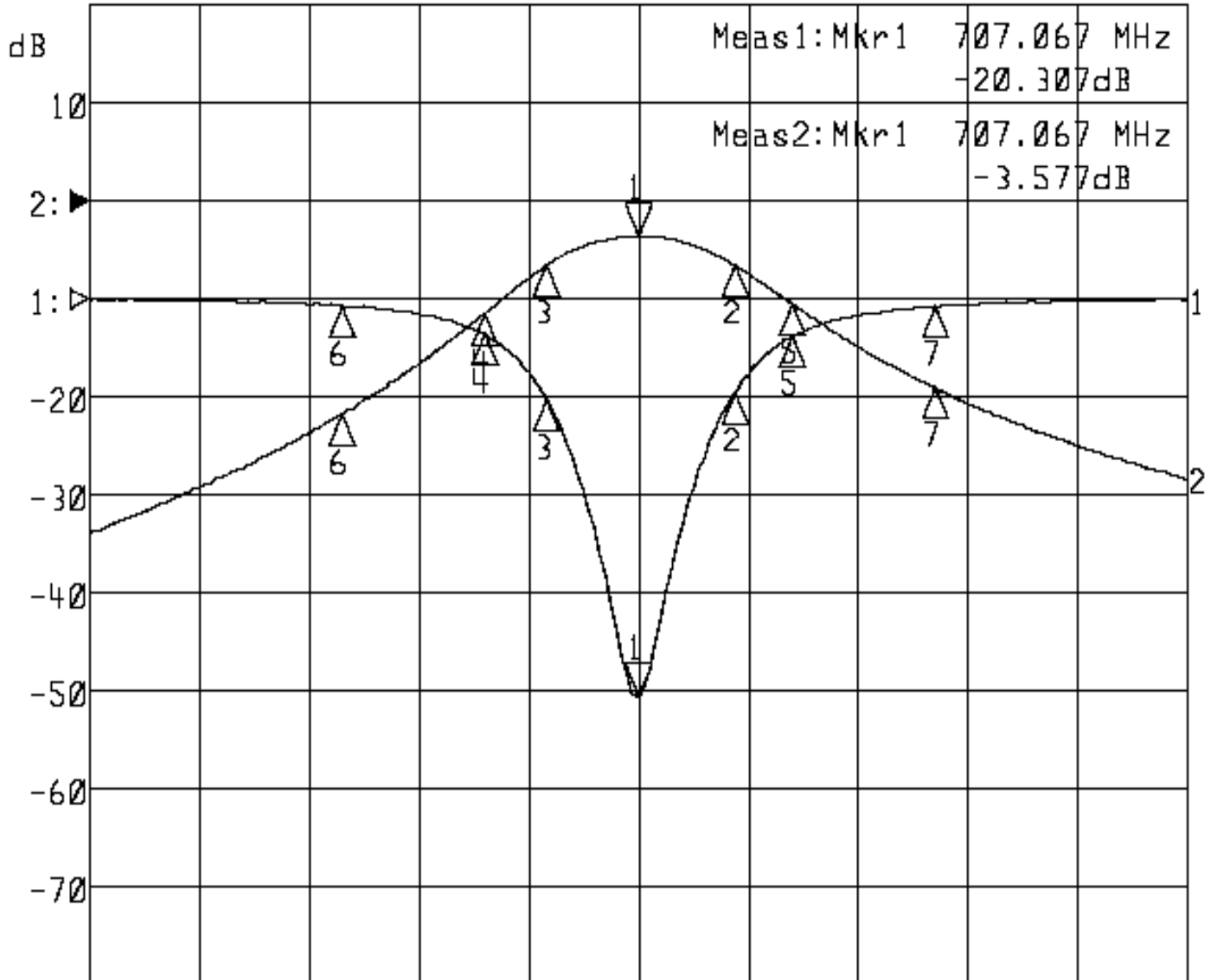
| | | | |
|------------|------------|------------|----------------------------|
| | | > 0.5Watt | |
| Approval | Supervisor | Designer | Aperture size |
| C.Y. Chang | C.S. Chang | P.H. Ching | 5W2S(3.8*3.5) 5HW024RB3 |

TEMWELL CORPORATION

Performance-TDW2489B-707M

20210031DB

▶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 707.000 MHz

Span 100.000 MHz

| 1: Mkr (MHz) | dB | 2: Mkr (MHz) | dB |
|--------------|---------|--------------|---------|
| 1> 707.0667 | -20.307 | 1> 707.0667 | -3.577 |
| 2: 715.8000 | -4.750 | 2: 715.8000 | -6.590 |
| 3: 698.6667 | -5.082 | 3: 698.6667 | -6.519 |
| 4: 693.0000 | -1.766 | 4: 693.0000 | -11.442 |
| 5: 721.0000 | -1.933 | 5: 721.0000 | -10.455 |
| 6: 680.0000 | -0.372 | 6: 680.0000 | -21.751 |
| 7: 734.0000 | -0.405 | 7: 734.0000 | -19.086 |