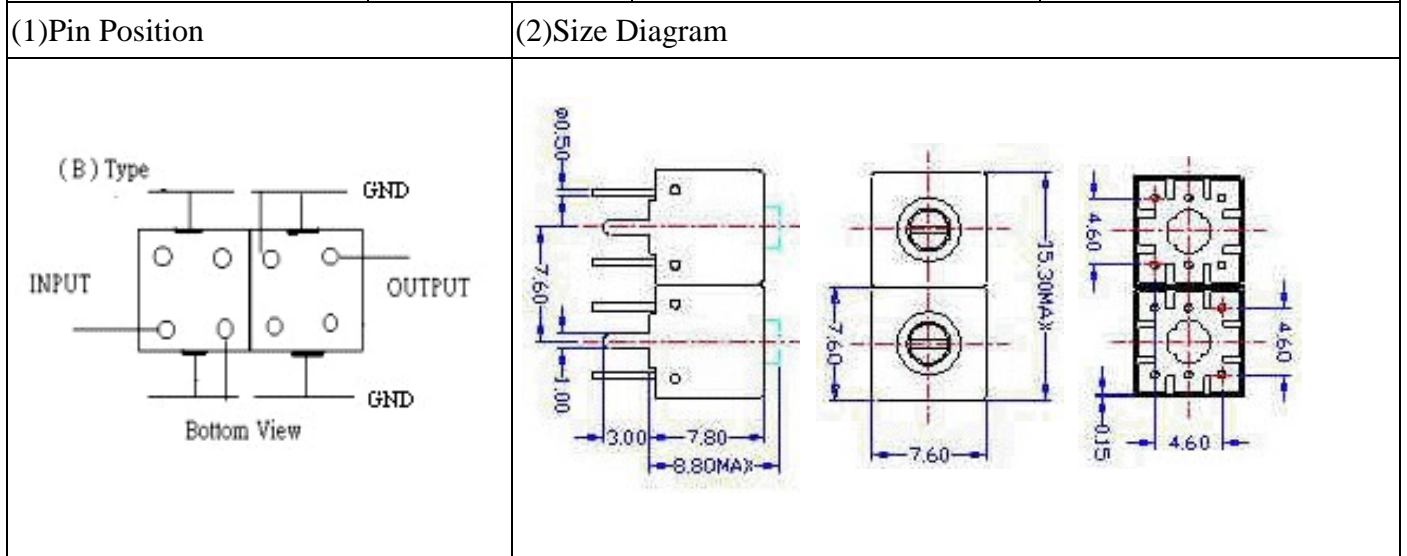


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|------------------------------|---------------|
| Customer Name | | Temwell's Part No. | TDS2075B-460M |
| Approval No. /dated | 20104016DB | Acceptable Specify Fo. Range | 456~515MHz |
| Work Instruction No. | 20104016DB | Date | 2001.04.11 |

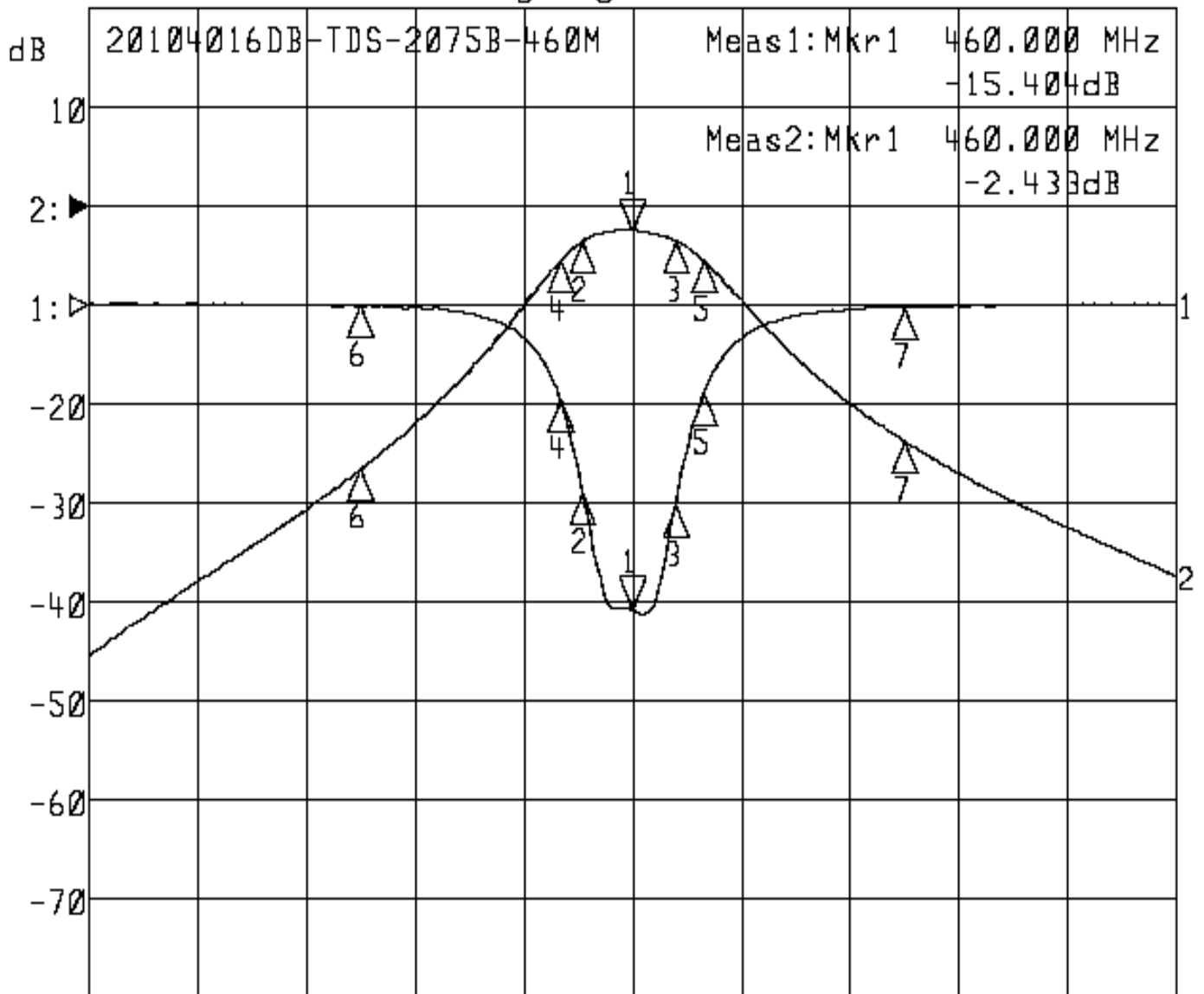


| | | | |
|------------------------------|-------------|-----------------|---------------------------|
| (3)Electric Character | | | |
| Item | | Specify | Performance |
| Center Freq.(Fo) +/- 0.5 % | | 460 MHz | 460 MHz |
| Tunable Range | | 460±5 MHz | 460±5 MHz |
| Insertion Loss | Typ. | 3.0 dB | 2.4 dB |
| -1dB Bandwidth | Typ. | 11 MHz | 16 MHz |
| -3 dB Bandwidth | Typ. | 16 MHz | 21 MHz |
| Sensitivity (Attenuation) | Fo - 50 MHz | Typ. 21 dBc | 24 dBc |
| | Fo + 50 MHz | Typ. 18 dBc | 21 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo +()MHz | Typ. dBc | dBc |
| Return Loss | Min. | 12 dB | 15.4 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 | 7S2S(4*3.5) 7S024RB5.5 |
| TEMWELL CORPORATION | | | |

Performance-TDS2075B-460M

20104016DB

▶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 460.000 MHz

Span 200.000 MHz

| 1: Mkr (MHz) | dB | 2: Mkr (MHz) | dB |
|--------------|---------|--------------|---------|
| 1> 460.0000 | -15.404 | 1> 460.0000 | -2.433 |
| 2: 451.0000 | -9.536 | 2: 451.0000 | -3.466 |
| 3: 467.8000 | -10.163 | 3: 467.8000 | -3.434 |
| 4: 446.8000 | -4.771 | 4: 446.8000 | -5.462 |
| 5: 473.0000 | -4.511 | 5: 473.0000 | -5.393 |
| 6: 410.0000 | -0.057 | 6: 410.0000 | -26.623 |
| 7: 510.0000 | -0.123 | 7: 510.0000 | -23.718 |