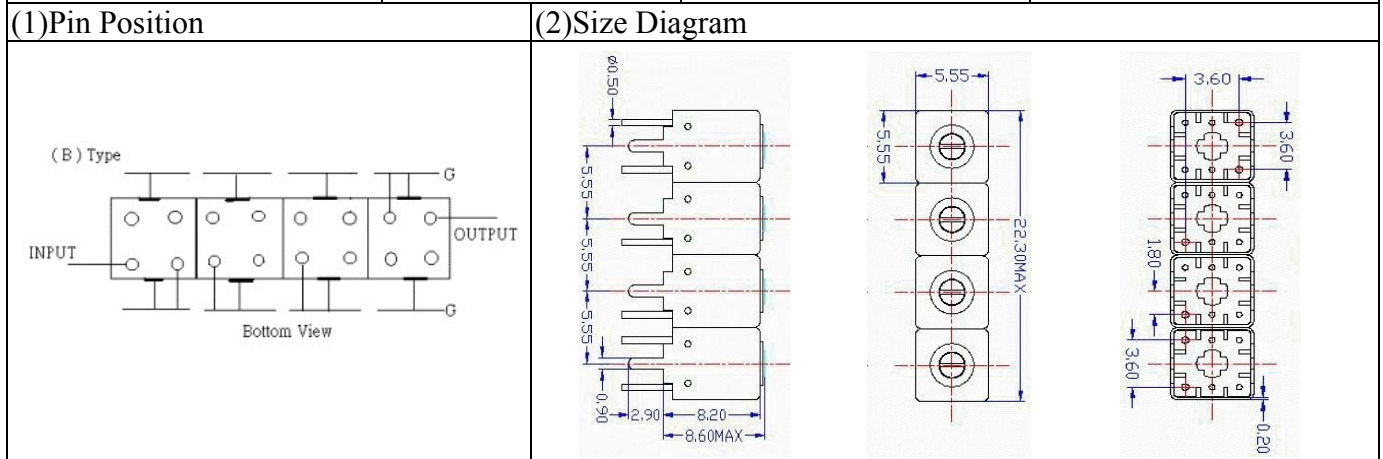


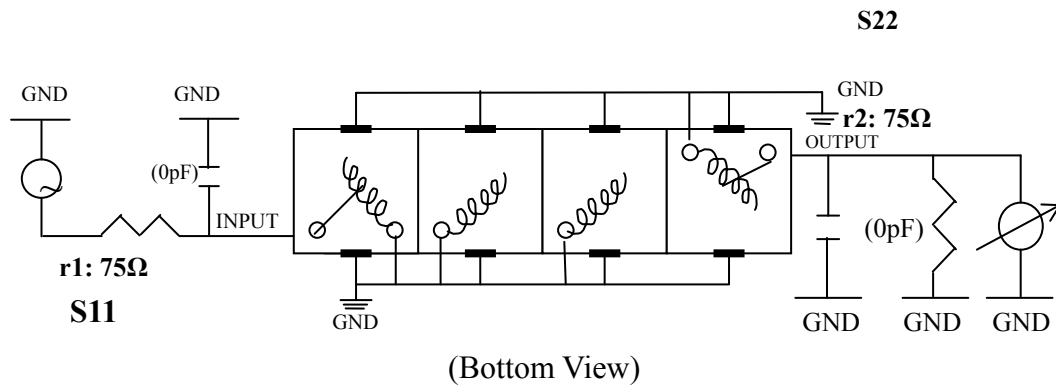
VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|------------|----------------------|-----------------|
| Customer Name | | Temwell's Part No. | TFWL4610B-1950M |
| Approval No. /dated | 0803018APR | Temwell,s print Name | 4610B 1950M |
| Work Instruction No. | 0803018CD | Date | Jun.23.2008 |



| (3) Electric Charasteric | | Specify | Performance |
|-------------------------------|--------------|-----------------|-----------------|
| Center Freq.(Fo) +/- 0.5 % | | 1950 MHz | 1950 MHz |
| Insertion Loss | | Typ. 4.0 dB | 2.85 dB |
| -3 dB Bandwidth | | Typ. 60 MHz | 84.6 MHz |
| Sensitivity (Attenuation) | Fo - 100 MHz | Typ. 35 dBc | 38 dBc |
| | Fo + 100 MHz | Typ. 24 dBc | 27 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo +()MHz | Typ. dBc | dBc |
| Return Loss | | Min. 12 dB | 17.2 dB |
| Ripple | | < 1 dB | dB |
| Impedance | | In / Out : 75 Ω | In / Out : 75 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 | | > 0.5Watt | |

(7) Measuring Circuit: ※Easy to match Impedance S11/S22 75Ω by parallel with about(0pF) / (0pF).

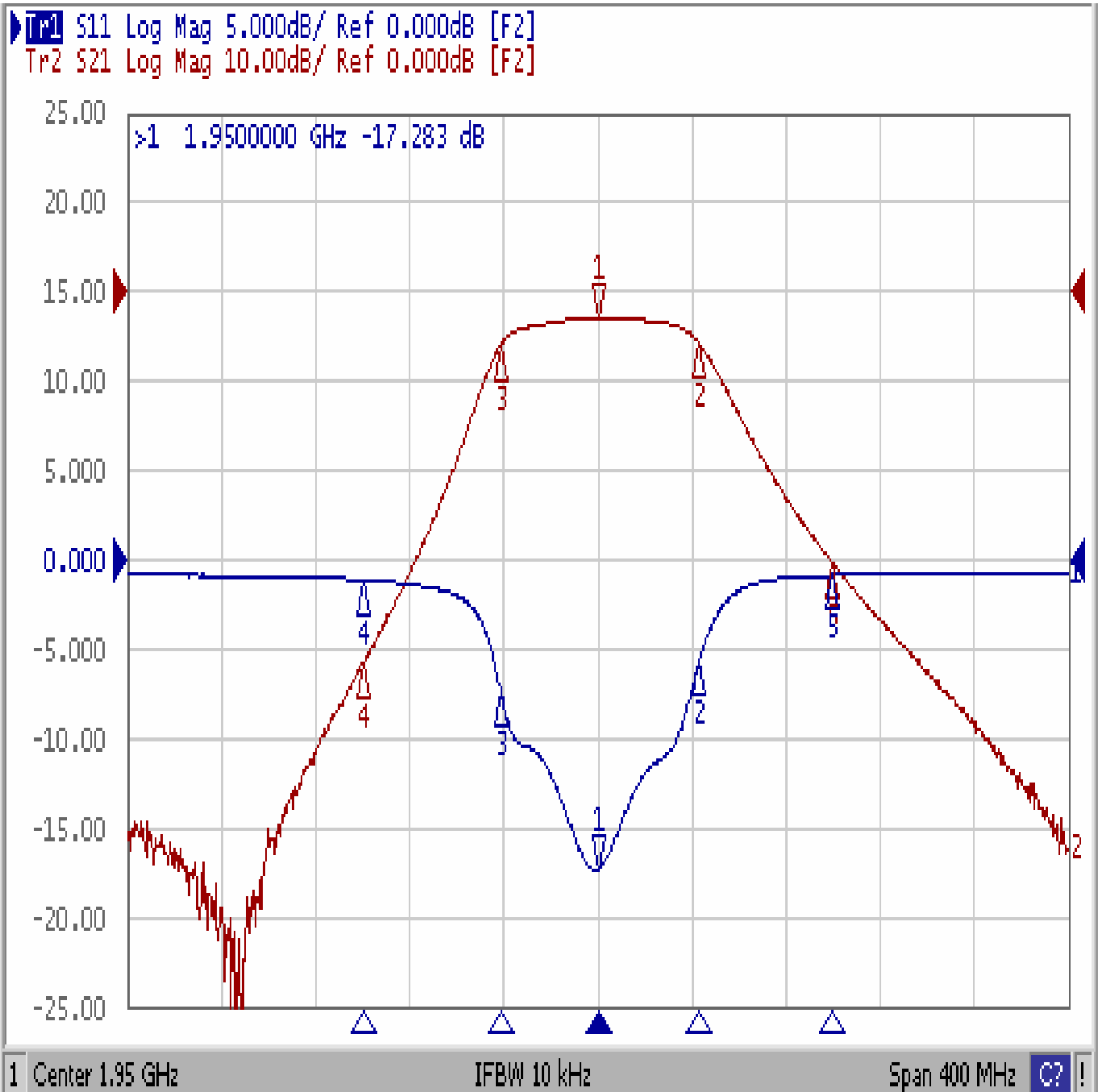


| | | | |
|-----------|------------|-----------|-----------------------------|
| Approval | Supervisor | Designer | Aperture size |
| C.Y.Chang | C.S.Chang | C.S.Chang | 5W4(3.8*4.0) 5HW046RB3.2 |

TEMWELL CORPORATION

Performance-TFWL4610B-1950M

0803018CD



| | | | | | | | |
|-----|-----|-----|----|-----------|-----|---------|----|
| Ch1 | Tr1 | S11 | >1 | 1.9500000 | GHz | -17.283 | dB |
| Ch1 | Tr1 | S11 | 2 | 1.9931030 | GHz | -5.6662 | dB |
| Ch1 | Tr1 | S11 | 3 | 1.9085980 | GHz | -7.2817 | dB |
| Ch1 | Tr1 | S11 | 4 | 1.8500000 | GHz | -1.1223 | dB |
| Ch1 | Tr1 | S11 | 5 | 2.0500000 | GHz | -0.8656 | dB |
| Ch1 | Tr2 | S21 | 1 | 1.9500000 | GHz | -2.8590 | dB |
| Ch1 | Tr2 | S21 | 2 | 1.9931030 | GHz | -5.8006 | dB |
| Ch1 | Tr2 | S21 | 3 | 1.9085980 | GHz | -5.9333 | dB |
| Ch1 | Tr2 | S21 | 4 | 1.8500000 | GHz | -41.704 | dB |
| Ch1 | Tr2 | S21 | 5 | 2.0500000 | GHz | -30.507 | dB |