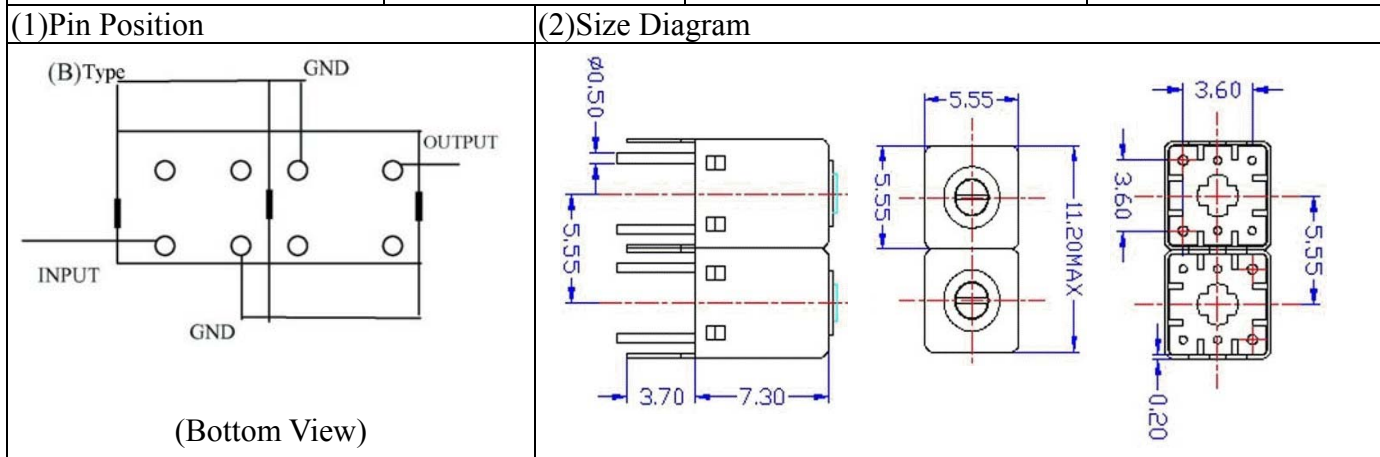


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|-------------|-----------------------|---------------|
| Customer Name | | Temwell's Part No. | TDR2670B-610M |
| Approval No. /dated | 0709068 APR | Temwell's print name. | 2670B 610M |
| Work Instruction No. | 0709068C | Date | Feb.19.2008 |



(3) Electric Characteristic

| Item | Specify | Performance | |
|------------------------------|-----------------|-----------------|--------|
| Center Freq.(Fo) +/- 0.5 % | 610 MHz | 610 MHz | |
| Tunable Range | 610±10 MHz | 610±10 MHz | |
| Insertion Loss | Typ. 3.0 dB | 1.91 dB | |
| -1 dB Bandwidth | Typ. 10 MHz | 17.4 MHz | |
| Sensitivity (Attenuation) | Fo - 50 MHz | Typ. 22 dBc | 25 dBc |
| | Fo + 50 MHz | Typ. 17 dBc | 20 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo +()MHz | Typ. dBc | dBc |
| Return Loss | Min. 12 dB | 22.6 dB | |
| Ripple | < 1 dB | dB | |
| Impedance | In / Out : 50 Ω | In / Out : 50 Ω | |

(4) Torque for Tuning Screw

| | |
|-----------------------------|--------------|
| (4) Torque for Tuning Screw | > 100gf · cm |
|-----------------------------|--------------|

(5) Temperature Condition:

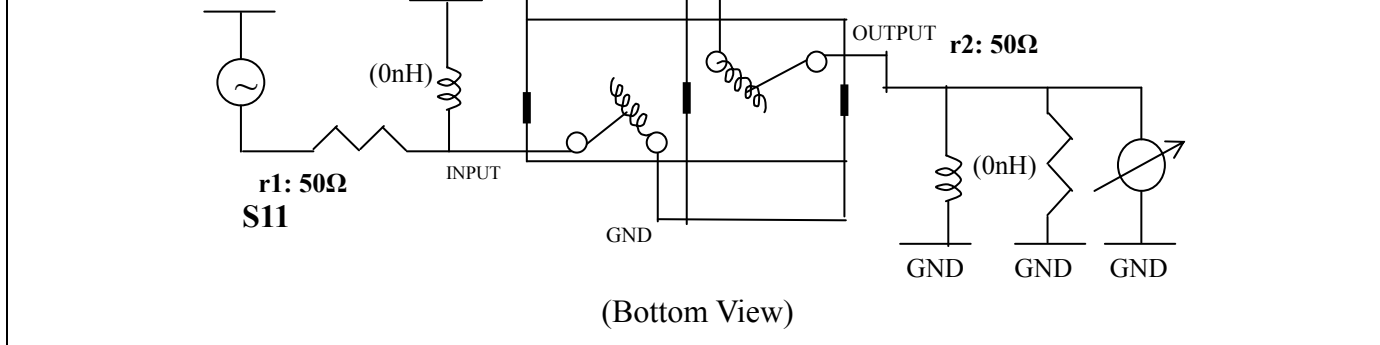
| | |
|-----------------------|-------------|
| Operating Temperature | 0°C ~ +60°C |
|-----------------------|-------------|

| | |
|---------------------|---------------|
| Storage Temperature | -20°C ~ +70°C |
|---------------------|---------------|

(6) Input Power

| | |
|-----------------|-----------|
| (6) Input Power | > 0.5Watt |
|-----------------|-----------|

(7) Measuring Circuit: ※Easy to match Impedance 50Ω/50Ω by parallel with about (0) nH.



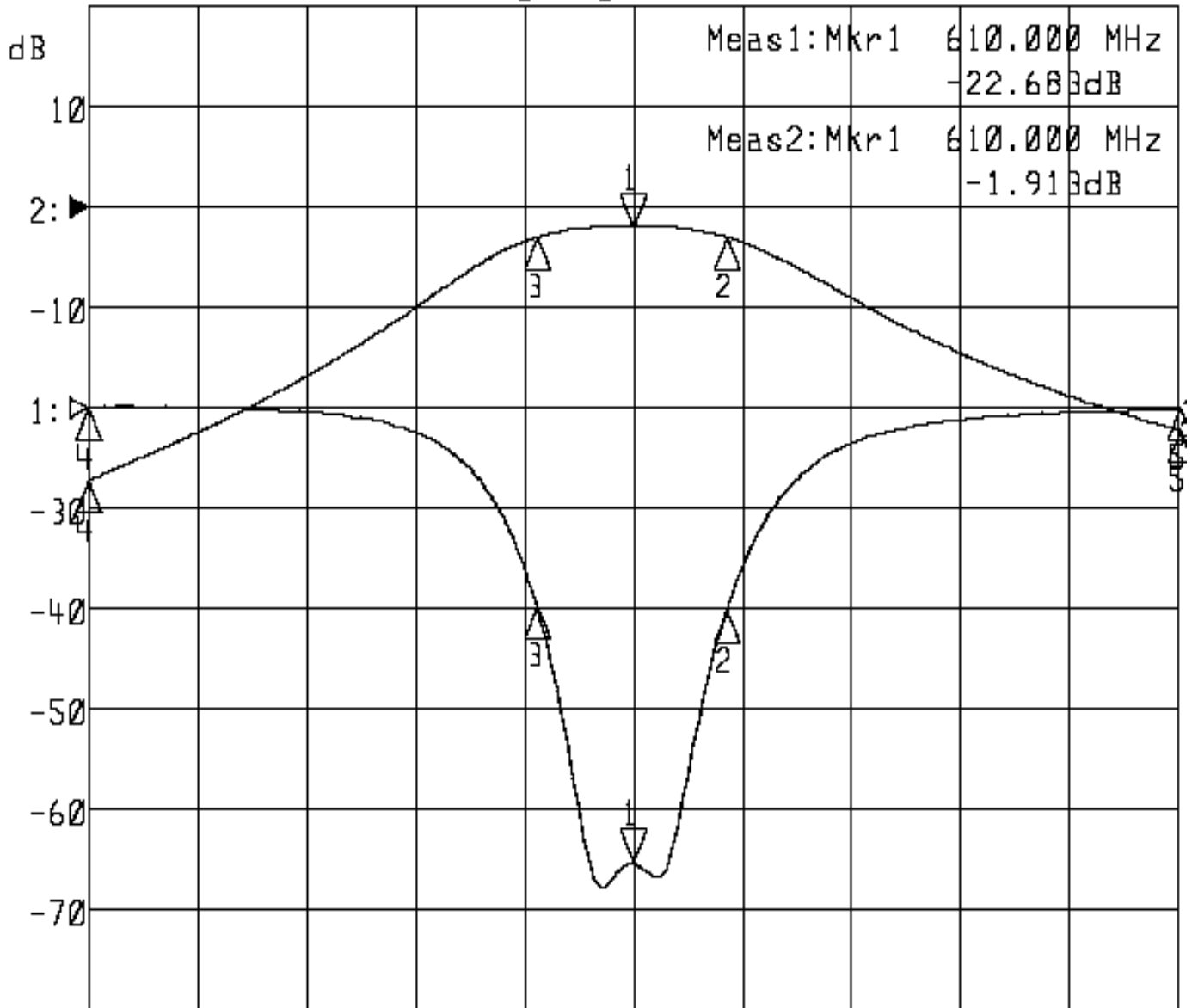
| | | | |
|-----------|------------|-----------|----------------------|
| Approval | Supervisor | Designer | Aperture size |
| C.Y.Chang | C.S.Chang | Y.H.Chuan | 5R2(3.8*4.2)F*(3.0B) |

TEMWELL CORPORATION

Performance-TDR2670B-610M

0709068C

▶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 610.000 MHz

Span 100.000 MHz

| 1: Mkr (MHz) dB | | 2: Mkr (MHz) dB | | | |
|--------------------|----------|--------------------|----|----------|---------|
| 1> | 610.0000 | -22.683 | 1> | 610.0000 | -1.913 |
| 2: | 618.5333 | -10.143 | 2: | 618.5333 | -2.934 |
| 3: | 601.1333 | -9.824 | 3: | 601.1333 | -2.945 |
| 4: | 560.0000 | 0.051 | 4: | 560.0000 | -27.205 |
| 5: | 660.0000 | -0.049 | 5: | 660.0000 | -22.166 |