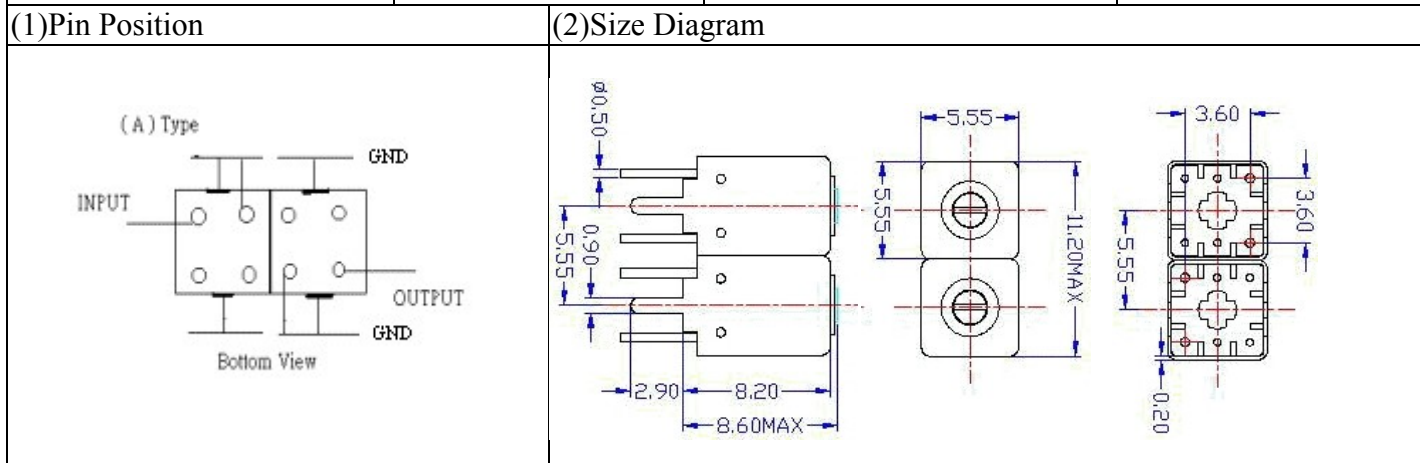


VHF UHF Helical Filter Specification Sheet

| | | | |
|----------------------|-------------|-----------------------|---------------|
| Customer Name | | Temwell's Part No. | TDW2891A-460M |
| Approval No. /dated | 0901118APR | Temwell's print name. | 2891A 460M |
| Work Instruction No. | 200901118BD | Date | Feb.04.2009 |



(3) Electric Characteristic

| Item | Specify | Performance | |
|------------------------------|-----------------|-----------------|--------|
| Center Freq.(Fo) +/- 0.5 % | 460 MHz | 460 MHz | |
| Tunable Range: | 460±5 MHz | 460±5 MHz | |
| Insertion Loss | Typ. 3.5 dB | 2.32 dB | |
| -3 dB Bandwidth | Typ. 10 MHz | 17.0 MHz | |
| Sensitivity (Attenuation) | Fo - 50 MHz | Typ. 23 dBc | 27 dBc |
| | Fo + 50 MHz | Typ. 30 dBc | 33 dBc |
| | Fo - ()MHz | Typ. dBc | dBc |
| | Fo + ()MHz | Typ. dBc | dBc |
| Return Loss | Min. 12 dB | 32.0 dB | |
| Ripple | < 1 dB | dB | |
| Impedance | In / Out : 50 Ω | In / Out : 50 Ω | |

(4) Torque for Tuning Screw > 60gf · cm

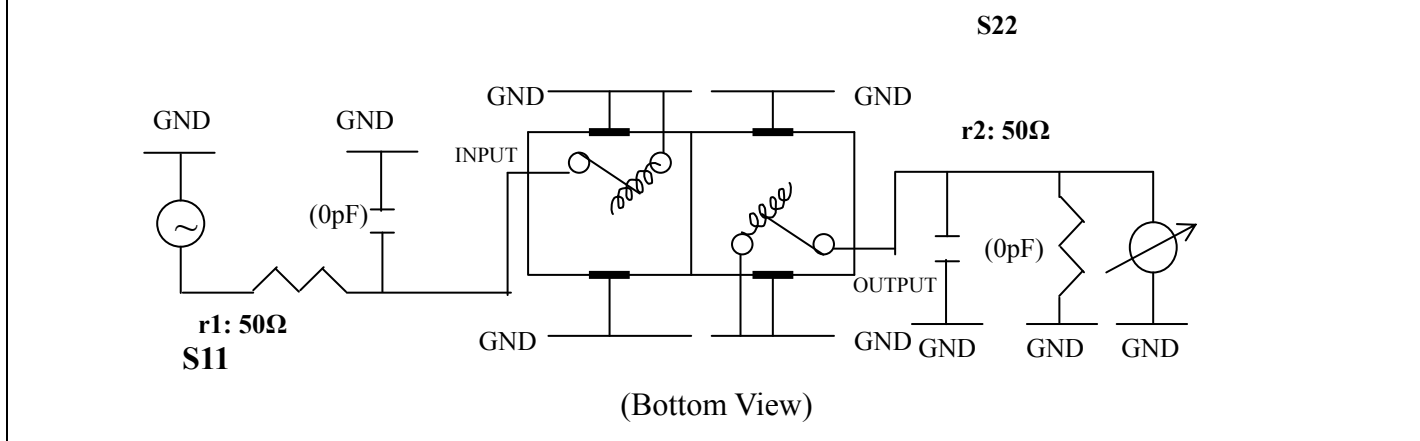
(5) Temperature Condition:

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

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

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

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



| | | | |
|-----------------------|-------------------------|---------------------|---|
| Approval C.Y.Chang | Supervisor C.K.Chang | Designer Y.H.Yeh | Aperture size 5W2S(3.8*3.5)(3.51) 5HW020RB3.5 |
|-----------------------|-------------------------|---------------------|---|

TEMWELL CORPORATION

TEMWELL

Form10-5W2A Vision D

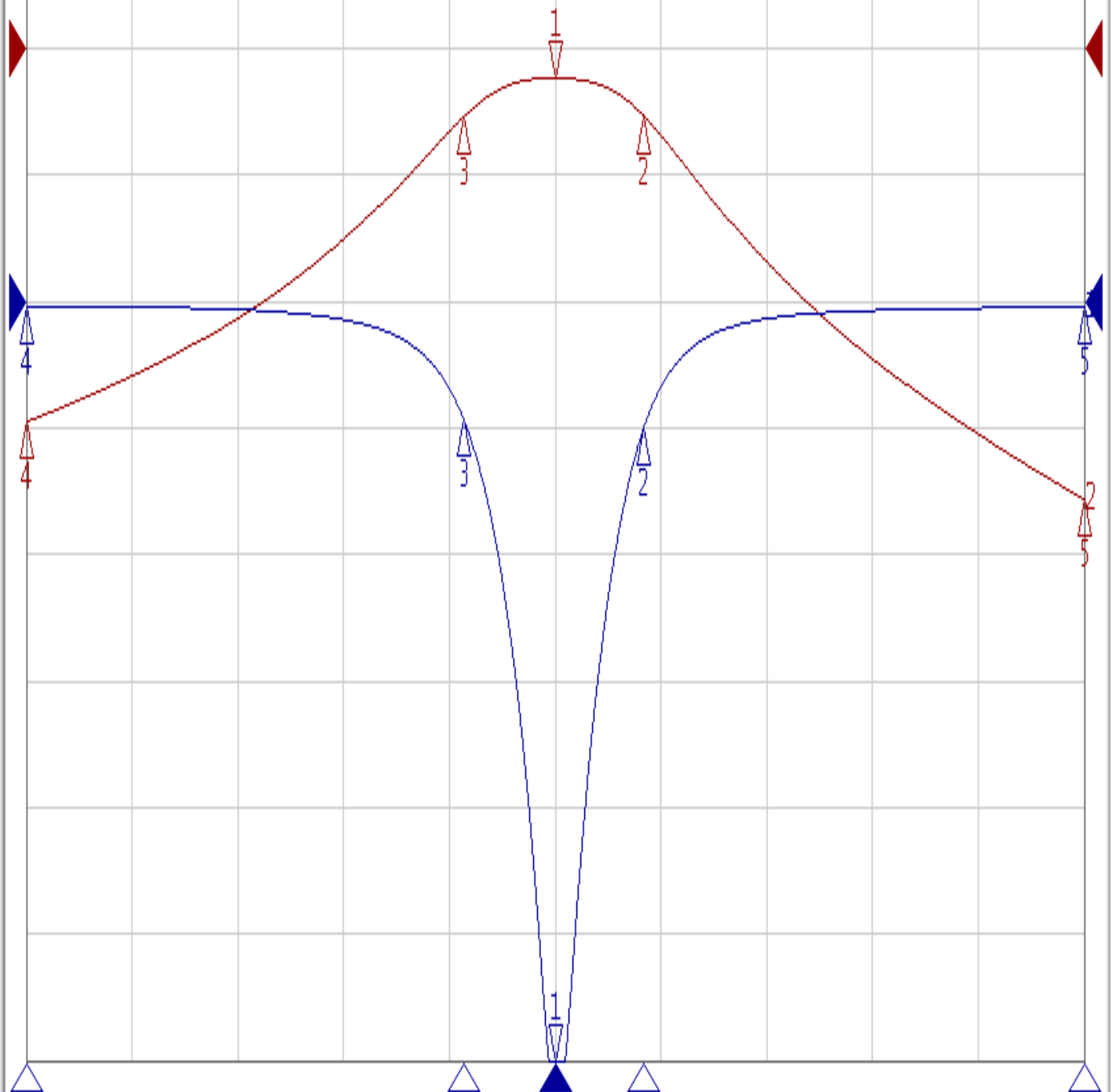
Performance-TDW2891A-460M

200901118BD

▶ Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F2]
Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F2]

| | | | | |
|---|-----------|-----|---------|----|
| 1 | 460.00000 | MHz | -2.3204 | dB |
| 2 | 468.40000 | MHz | -5.3309 | dB |
| 3 | 451.40000 | MHz | -5.3369 | dB |
| 4 | 410.00000 | MHz | -29.491 | dB |
| 5 | 510.00000 | MHz | -35.607 | dB |

| | | | | |
|----|-----------|-----|---------|----|
| >1 | 460.00000 | MHz | -32.007 | dB |
| 2 | 468.40000 | MHz | -4.9823 | dB |
| 3 | 451.40000 | MHz | -4.6832 | dB |
| 4 | 410.00000 | MHz | -0.1867 | dB |
| 5 | 510.00000 | MHz | -0.2076 | dB |



1 Center 460 MHz

IFBW 10 kHz

Span 100 MHz Cor !