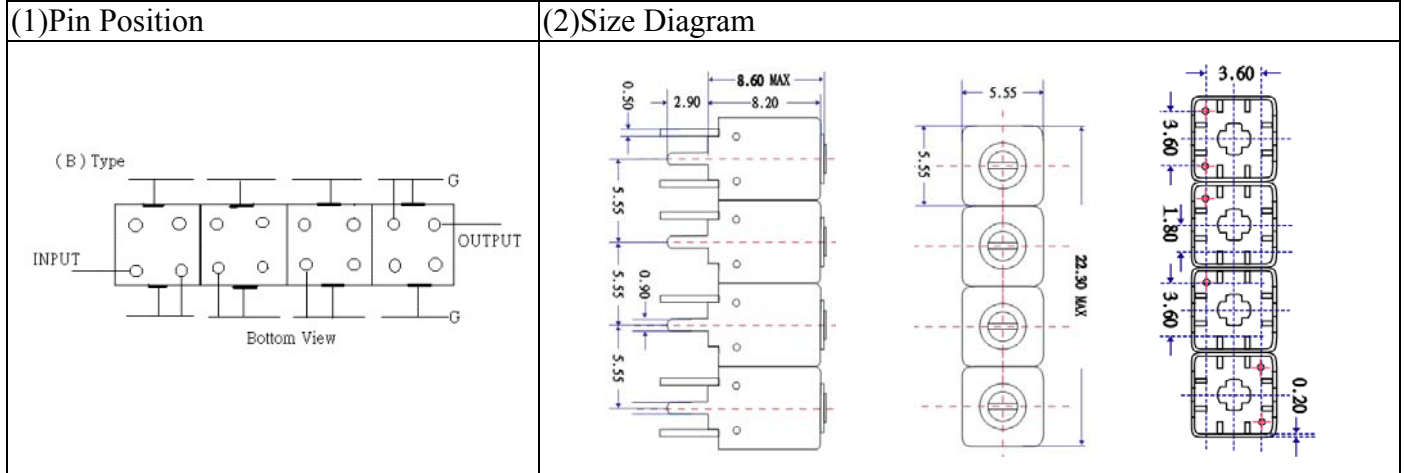


# VHF UHF Helical Filter Specification Sheet

|                      |             |                      |               |
|----------------------|-------------|----------------------|---------------|
| Customer Name        |             | Temwell's Part No.   | TFW4771B-825M |
| Approval No. /dated  | 201803057CD | Temwell's Print name | 4771B<br>825M |
| Work Instruction No. | 201803057CD | Date                 | Apr.12.2018   |



(3) Electric Characteristic

| Item                         | Specify         | Performance     |
|------------------------------|-----------------|-----------------|
| Center Freq.(Fo ) +/- 0.5 %  | 825 MHz         | 825 MHz         |
| Insertion Loss               | Typ. 3.5 dB     | 2.48 dB         |
| -3 dB Bandwidth              | Typ. 43 MHz     | 48.0 MHz        |
| Sensitivity<br>(Attenuation) | Fo - 100 MHz    | Typ. 64 dBc     |
|                              | Fo + 100 MHz    | Typ. 39 dBc     |
|                              | Fo - ( )MHz     | Typ. dBc        |
|                              | Fo +( )MHz      | Typ. dBc        |
| Return Loss                  | Min. 12 dB      | 21.8 dB         |
| Ripple                       | < 1 dB          |                 |
| Impedance                    | In / Out : 50 Ω | In / Out : 50 Ω |

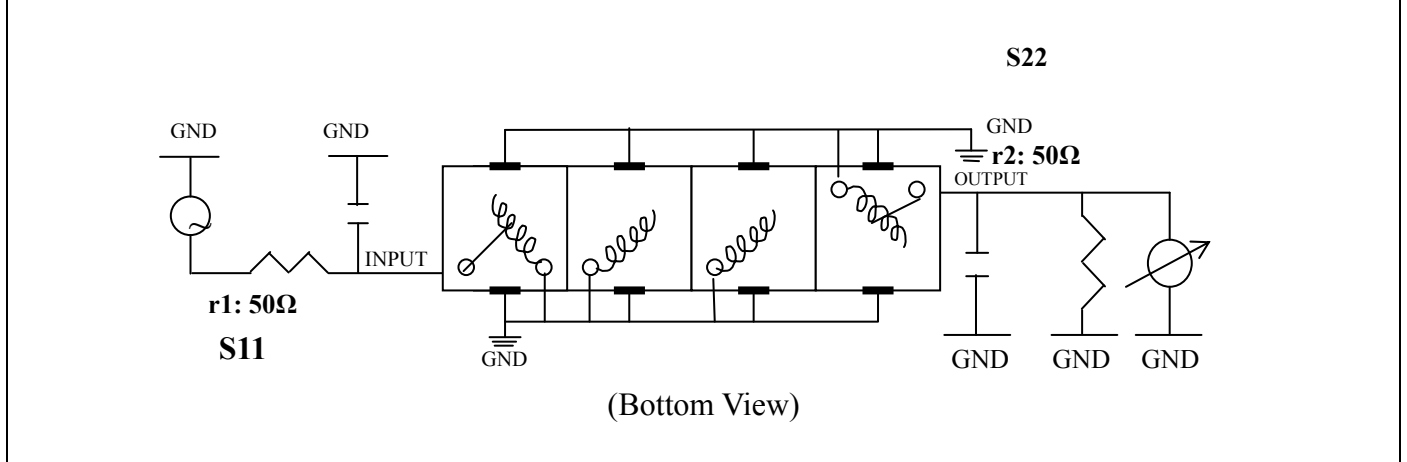
(4) Torque for Tuning Screw > 60gf · cm

(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 S11/S22 50Ω by parallel with about(- -).



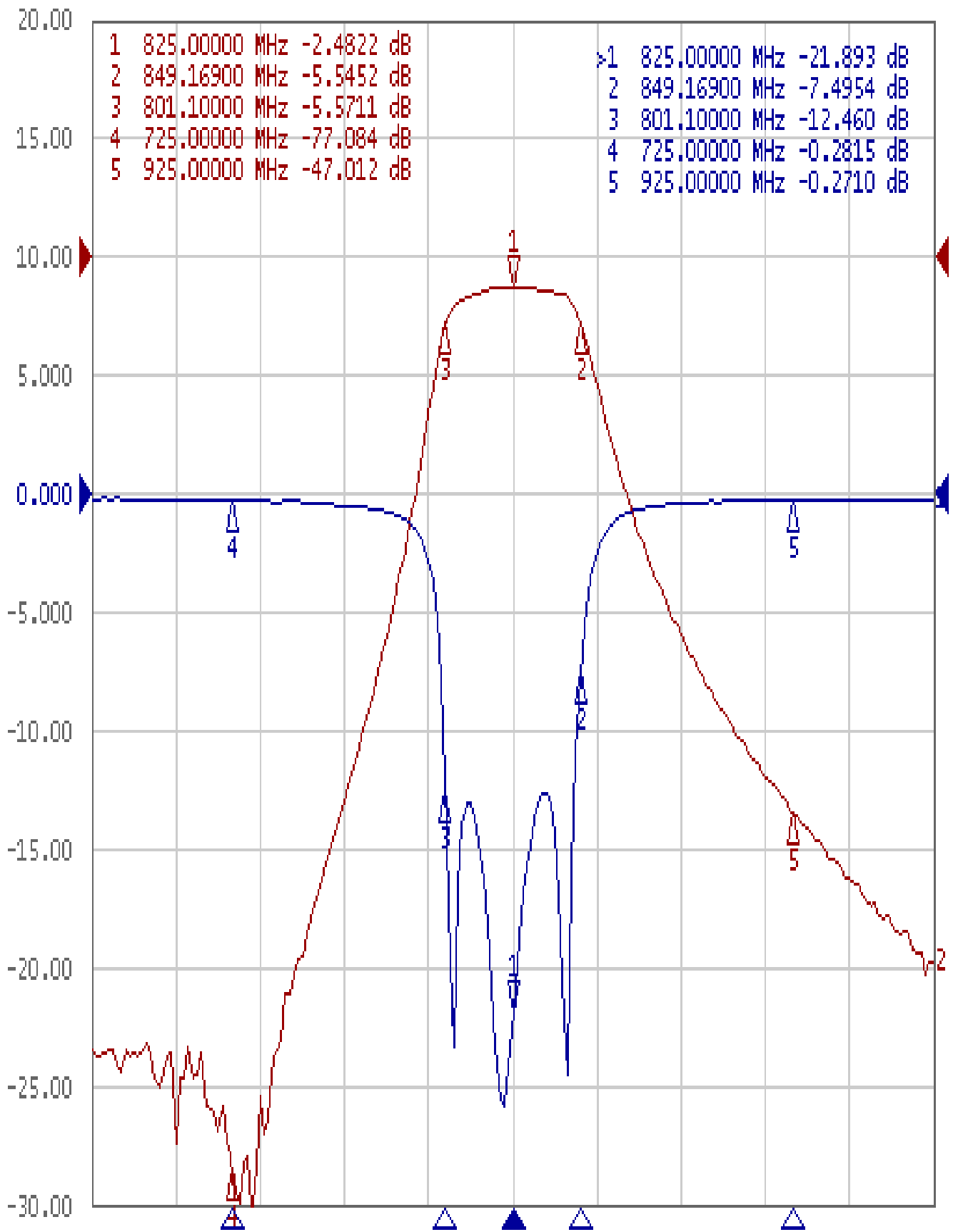
|           |            |          |                                    |
|-----------|------------|----------|------------------------------------|
| Approval  | Supervisor | Designer | Aperture size                      |
| C.Y.Chang | C.K.Chang  | W.W.Wang | 5W4S(3.8*4.5)(4.53)<br>5HW046RB3.2 |

TEMWELL CORPORATION

# Performance-TFW4771B-825M

## 201803057CD

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



1 Center 825 MHz

IFBW 70 kHz

Span 300 MHz Cor !