

# VHF UHF Helical Filter Specification Sheet

|                      |             |                      |                 |
|----------------------|-------------|----------------------|-----------------|
| Customer Name        |             | Temwell's Part No.   | TFW41112B-1950M |
| Approval No. /dated  | 201908032CD | Temwell's Print name | 41112B<br>1950M |
| Work Instruction No. | 201908032CD | Date                 | Aug.23.2019     |

|  |                         |
|--|-------------------------|
| <p>(1) Pin Position</p> <p style="text-align: center;">(B) Type</p> <p style="text-align: center;">Bottom View</p> | <p>(2) Size Diagram</p> |
|--|-------------------------|

(3) Electric Characteristic

| Item                         | Specify         | Performance     |
|------------------------------|-----------------|-----------------|
| Center Freq.(Fo) +/- 0.5 %   | 1950 MHz        | 1950 MHz        |
| Insertion Loss               | Typ. 4.5 dB     | 3.57 dB         |
| -3 dB Bandwidth              | Typ. 60 MHz     | 67.9 MHz        |
| Sensitivity<br>(Attenuation) | Fo - 100 MHz    | Typ. 40 dBc     |
|                              | Fo + 100 MHz    | Typ. 29 dBc     |
|                              | Fo - ( )MHz     | Typ. dBc        |
|                              | Fo +( )MHz      | Typ. dBc        |
| Return Loss                  | Min. 12 dB      | 19.6 dB         |
| Ripple                       | < 1 dB          |                 |
| Impedance                    | In / Out : 50 Ω | In / Out : 50 Ω |

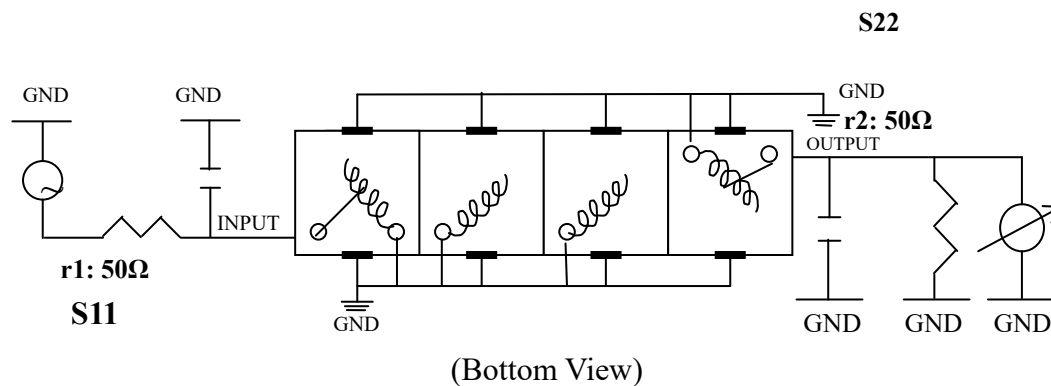
(4) Torque for Tuning Screw > 60gf · cm

(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(- -).

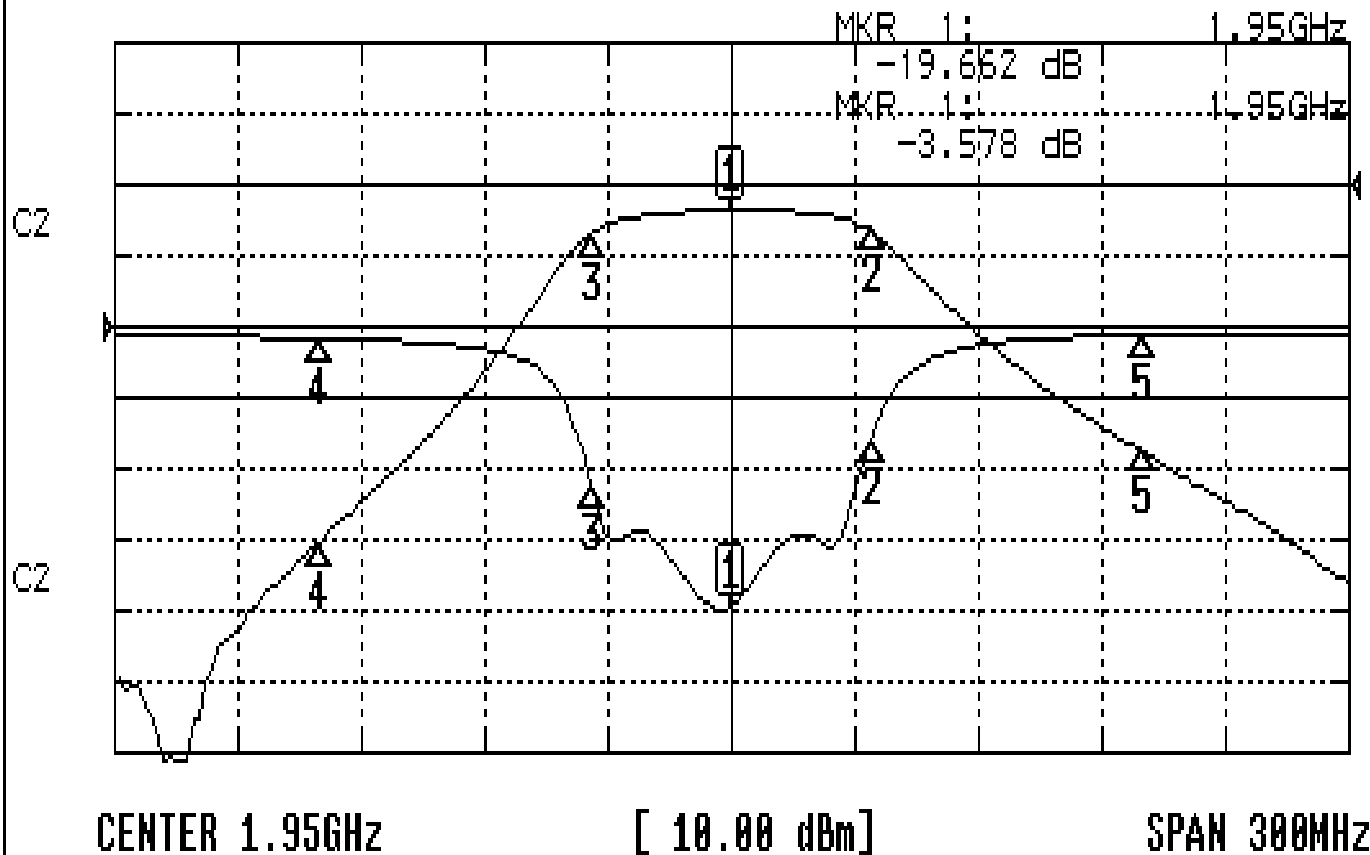


|                       |                         |                      |  |
|-----------------------|-------------------------|----------------------|--|
| Approval<br>C.Y.Chang | Supervisor<br>C.K.Chang | Designer<br>M.Y.Kang | Aperture size<br>5W4S(3.8*4.0)(4.08)<br>5HW046RB3.2 (J1) |
| TEMWELL CORPORATION   |                         |                      |  |

# Performance-TFW4112B-1950M

## 201908032CD

CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/  
CH2 S21 LOG MAG REF 0.000 dB 10.000 dB/



### CH1 MARKER LIST

| Marker | Freq (GHz) | Magnitude (dB) |
|--------|------------|----------------|
| 1      | 1.950 000  | -19.662        |
| 2      | 1.984 200  | -7.870         |
| 3      | 1.916 250  | -11.128        |
| 4      | 1.850 000  | -0.819         |
| 5      | 2.050 000  | -0.606         |

### CH2 MARKER LIST

| Marker | Freq (GHz) | Magnitude (dB) |
|--------|------------|----------------|
| 1      | 1.950 000  | -3.578         |
| 2      | 1.984 200  | -6.591         |
| 3      | 1.916 250  | -6.566         |
| 4      | 1.850 000  | -50.140        |
| 5      | 2.050 000  | -37.628        |