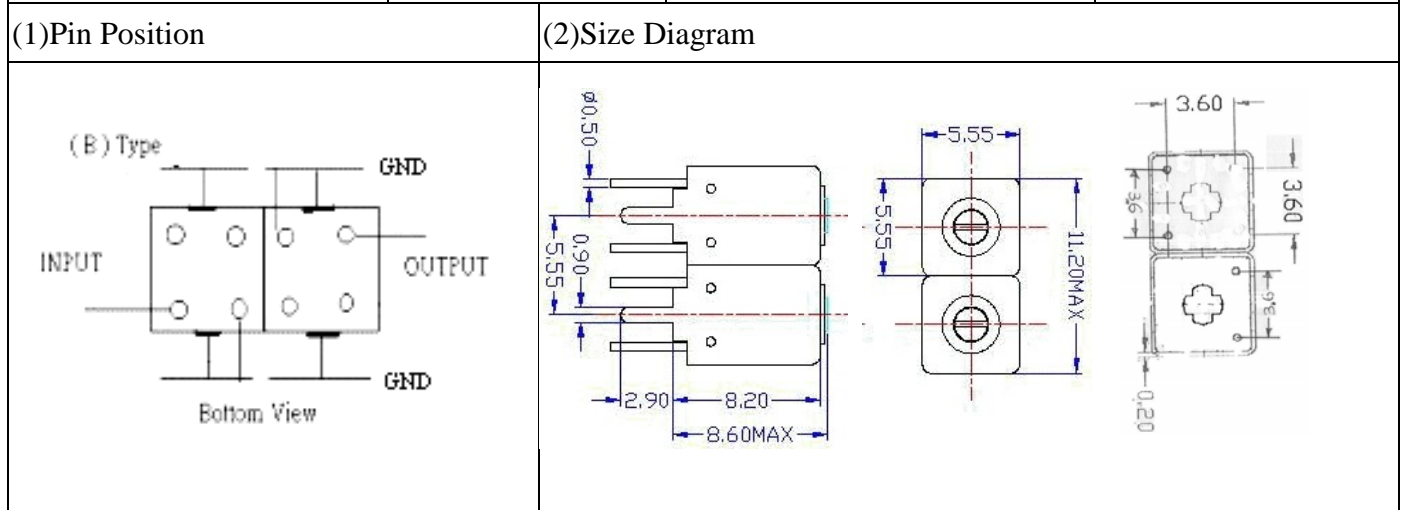


# VHF UHF Helical Filter Specification Sheet

|                      |            |                              |               |
|----------------------|------------|------------------------------|---------------|
| Customer Name        |            | Temwell's Part No.           | TDW2491B-730M |
| Approval No. /dated  | 20111040DC | Acceptable Specify Fo. Range | 751~800MHz    |
| Work Instruction No. | 20111040DC | Date                         | Nov.22.2001   |



(3) Electric Character

| Item                         | Specify         | Performance     |        |
|------------------------------|-----------------|-----------------|--------|
| Center Freq.(Fo ) +/- 0.5 %  | 730 MHz         | 730 MHz         |        |
| Tunable Range:               | 730±5 MHz       | 730±5 MHz       |        |
| Insertion Loss               | Typ. 4.0 dB     | 3.15 dB         |        |
| -3 dB Bandwidth              | Typ. 16 MHz     | 22.7 MHz        |        |
| Sensitivity<br>(Attenuation) | Fo - 50 MHz     | Typ. 24 dBc     | 27 dBc |
|                              | Fo + 50 MHz     | Typ. 18 dBc     | 21 dBc |
|                              | Fo - ( )MHz     | Typ. dBc        | dBc    |
|                              | Fo +( )MHz      | Typ. dBc        | dBc    |
| Return Loss                  | Min. 12 dB      | 15.6 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     |

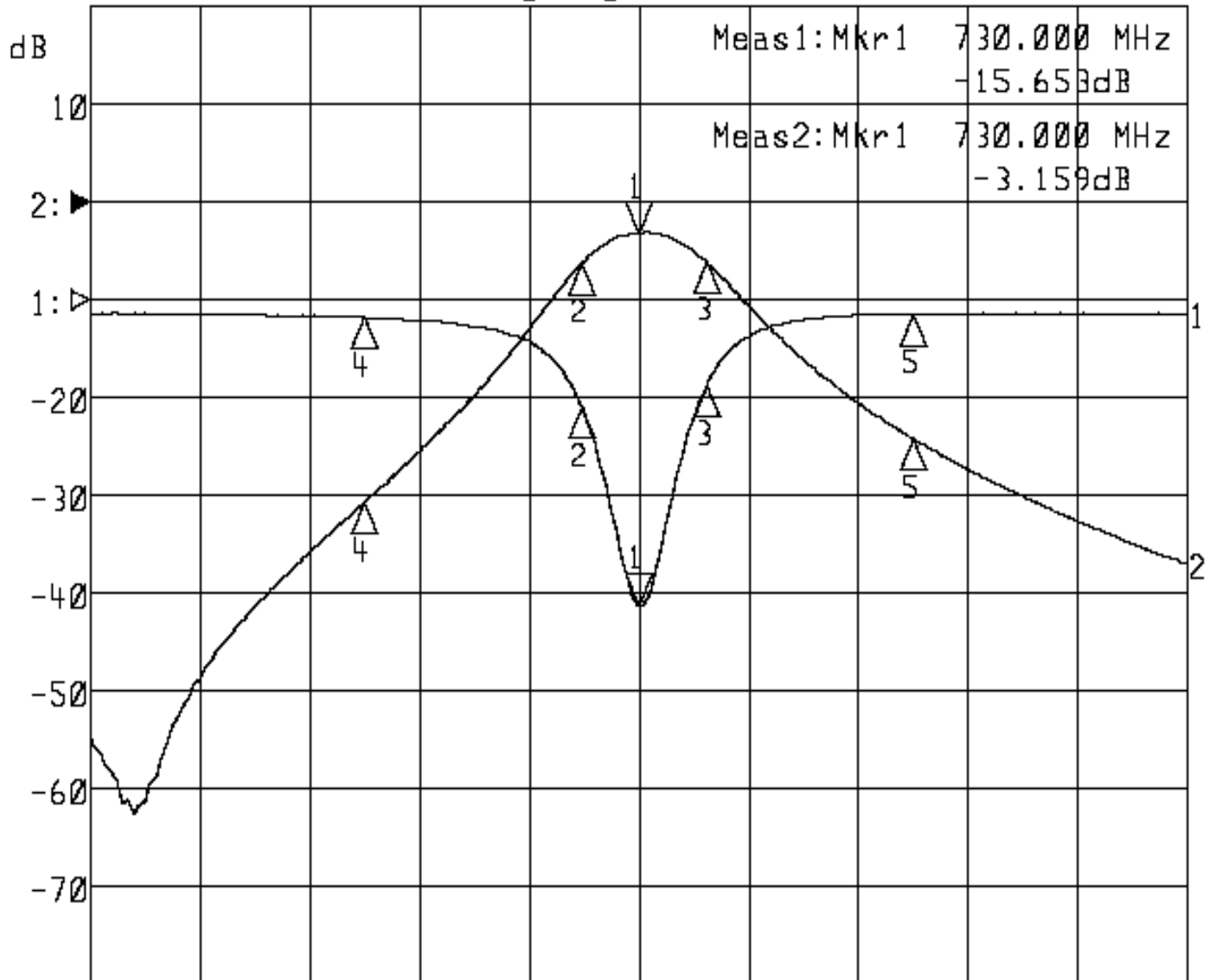
|            |            |            |                            |
|------------|------------|------------|----------------------------|
| Approval   | Supervisor | Designer   | Aperture size              |
| C.Y. Chang | C.S. Chang | C.S. Chang | 5W2S(3.8*3.7)<br>5HW024RB3 |

TEMWELL CORPORATION

# Performance-TDW2491B-730M

## 20111040DC

▷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 730.000 MHz

Span 200.000 MHz

| 1: Mkr (MHz) | dB      | 2: Mkr (MHz) | dB      |
|--------------|---------|--------------|---------|
| 1> 730.0000  | -15.653 | 1> 730.0000  | -3.159  |
| 2: 719.6667  | -5.461  | 2: 719.6667  | -6.226  |
| 3: 742.3000  | -4.385  | 3: 742.3000  | -6.106  |
| 4: 680.0000  | -0.926  | 4: 680.0000  | -30.720 |
| 5: 780.0000  | -0.719  | 5: 780.0000  | -24.178 |