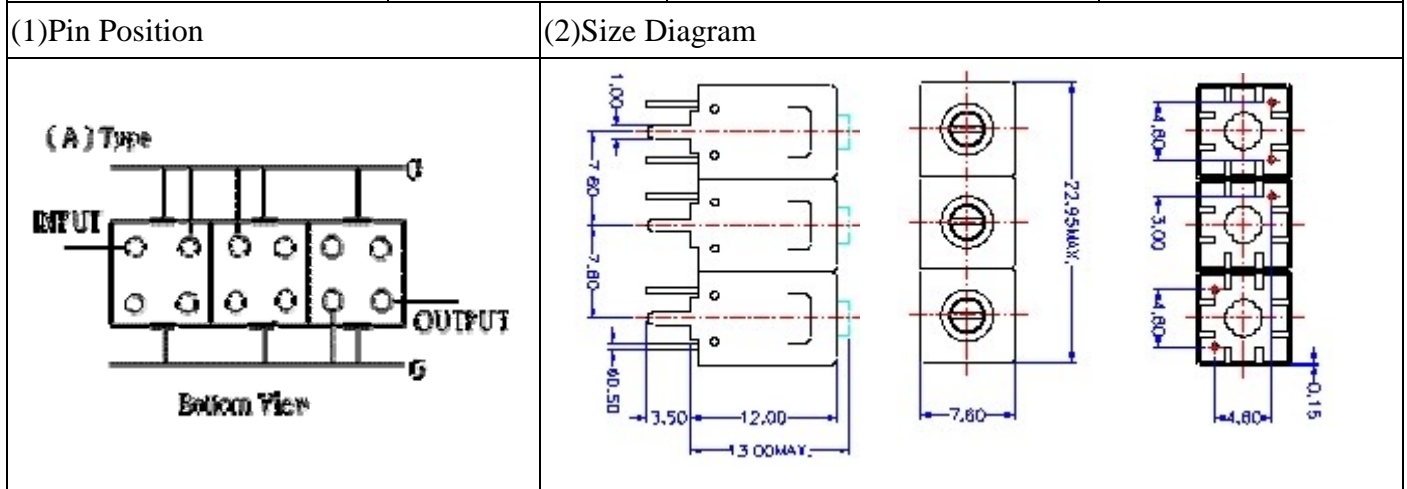


# VHF UHF Helical Filter Specification Sheet

|                      |            |                              |                |
|----------------------|------------|------------------------------|----------------|
| Customer Name        |            | Temwell's Part No.           | TTL67535A-705M |
| Approval No. /dated  | 20208021DC | Acceptable Specify Fo. Range | 701~750MHz     |
| Work Instruction No. | 20208021DC | Date                         | Aug. 19, 2002  |



(3) Electric Character

| Item                         | Specify         | Performance     |
|------------------------------|-----------------|-----------------|
| Center Freq.(Fo) +/- 0.5 %   | 705 MHz         | 705 MHz         |
| Tunable Range                | 705±3 MHz       | 705±3 MHz       |
| Insertion Loss               | Typ. 2.5 dB     | 1.6 dB          |
| -1 dB Bandwidth              | Typ. 40 MHz     | 47 MHz          |
| -3 dB Bandwidth              | Typ. 50 MHz     | 58 MHz          |
| Sensitivity<br>(Attenuation) | Fo - 100 MHz    | Typ. 44 dBc     |
|                              | Fo + 100 MHz    | Typ. 25 dBc     |
|                              | Fo - ( )MHz     | Typ. dBc        |
|                              | Fo +( )MHz      | Typ. dBc        |
| Return Loss                  | Min. 12 dB      | 16 dB           |
| Ripple                       | < 1 dB          | dB              |
| Impedance                    | In / Out : 75 Ω | In / Out : 75 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 > 1Watt

|           |            |           |                         |
|-----------|------------|-----------|-------------------------|
| Approval  | Supervisor | Designer  | Aperture size           |
| C.Y.Chang | C.S.Chang  | C.S.Chang | 7H3S(4*7.5)<br>7H046LB5 |

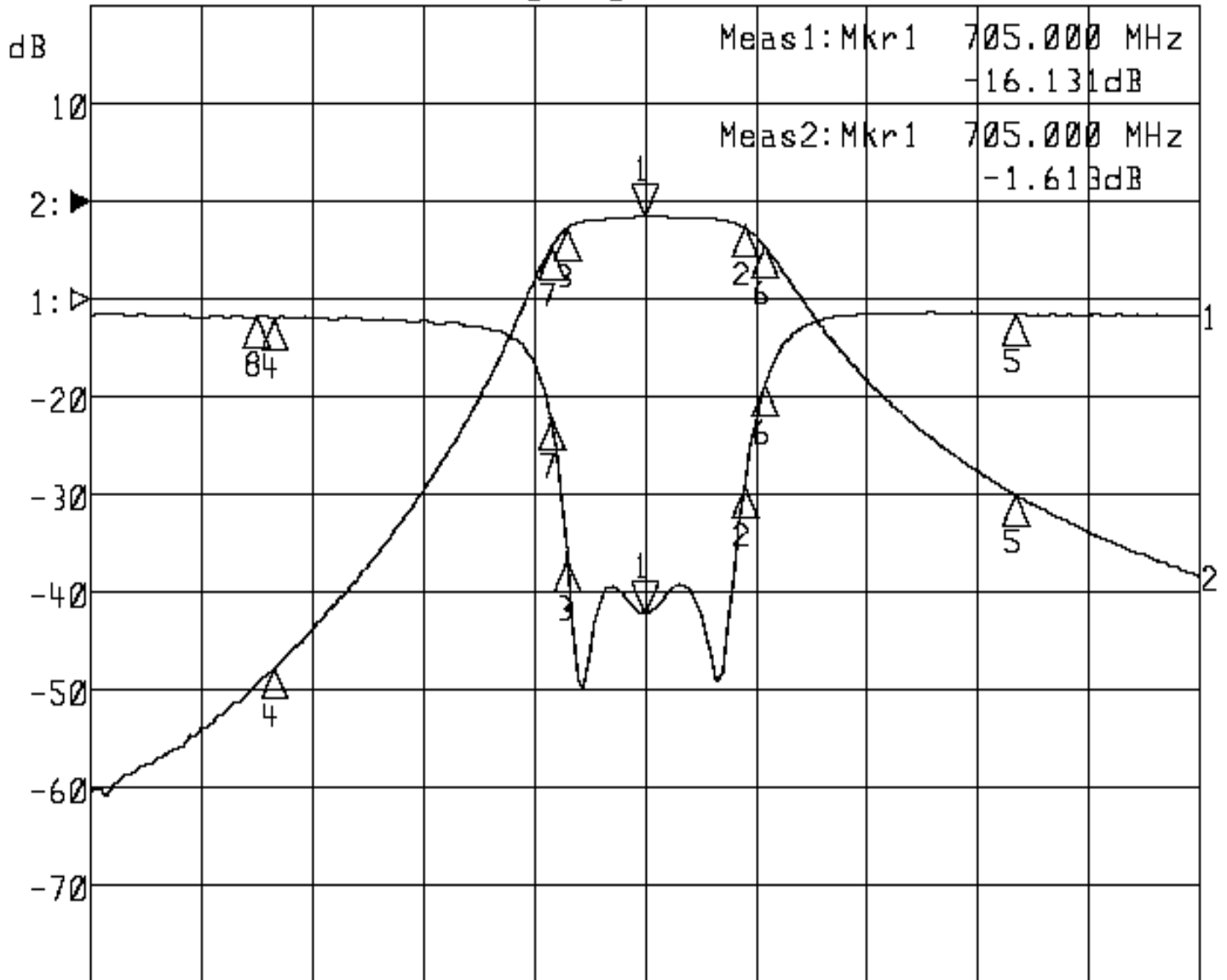
TEMWELL CORPORATION

# Performance-TTL67535A-705M

## 20208021DC

▶1:S11 Refl Port1 Log Mag 5.0 dB/ Ref 0.00 dB C?

▶2:S12 Rev Trans Log Mag 10.0 dB/ Ref 0.00 dB C?



Center 705.000 MHz

Span 300.000 MHz

| 1: Mkr (MHz) | dB      | 2: Mkr (MHz) | dB      |
|--------------|---------|--------------|---------|
| 1> 705.0000  | -16.131 | 1> 705.0000  | -1.613  |
| 2: 731.8000  | -9.666  | 2: 731.8000  | -2.612  |
| 3: 684.2333  | -13.315 | 3: 684.2333  | -2.660  |
| 4: 605.0000  | -0.978  | 4: 605.0000  | -47.772 |
| 5: 805.0000  | -0.763  | 5: 805.0000  | -30.011 |
| 6: 737.5000  | -4.387  | 6: 737.5000  | -4.599  |
| 7: 679.6667  | -6.091  | 7: 679.6667  | -4.693  |
| 8: 600.0000  | -0.901  |              |         |