

- ◆ Very Low PIM
- ◆ 100W average power
- ◆ Low VSWR
- ◆ Convenient Size
- ◆ Intimate cable contact
- ◆ RoHS compliant
- ◆ 7-16, 4.1-9.5, N & SMA connectors



Microlab TK-27 series of 100W Cable Loads are intended for wireless applications, when extremely low PIM, Passive Intermodulation, is required. A typical application is in terminating the unused port of a Hybrid Coupler used to combine different wireless signals. This is also offered as a discrete product in the CT series of low PIM hybrid combiners.

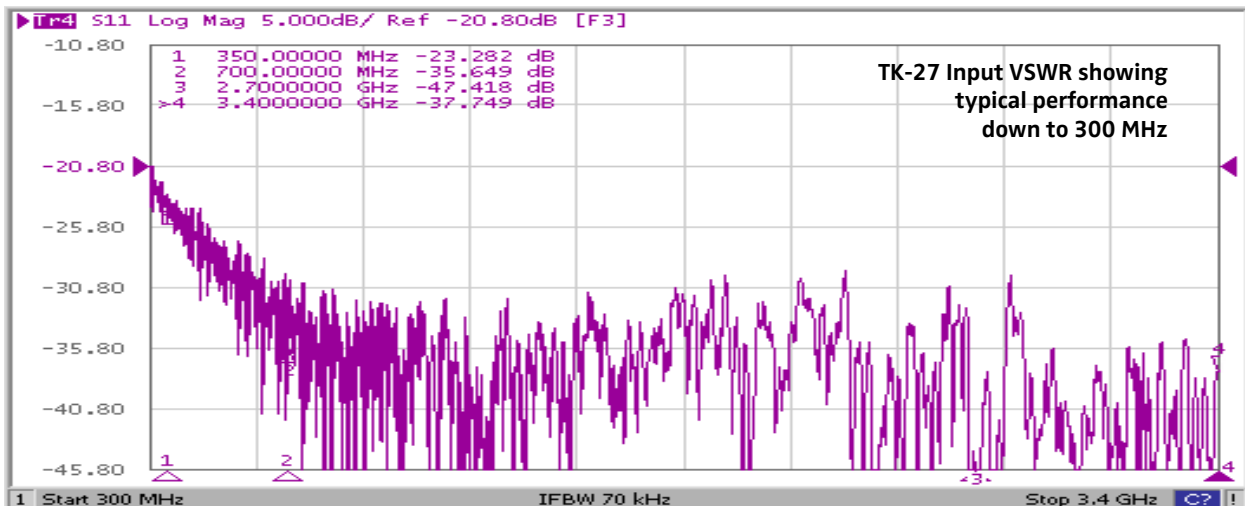
For IEC 60950 compliance (surface temperature no greater than 90°C) at full power at 55°C ambient, air flow over the fins is required. (07/14)

Frequency: 400 - 2700 MHz  
 Power Rating: 100W avg., 5 kW peak  
 PIM: -165 dBc typ; <-160 dBc, tested with 2 1900 MHz 20W tones at 25°C  
 Environment: -35 to +55°C ambient  
 Surface Temp: +110°C max.\*  
 Impedance: 50Ω nom.  
 Connector Finish: Triplate  
 Weight, nom: 5.55 lb., 2.50 Kg  
 Enclosure: Black epoxy paint, mounting bracket supplied

\* Measured on heat sink fin, at full power into a unit that is mounted in a 2 RU and 19" box, all enclosed and without cooling, at 25°C external ambient temperature.

| Power*<br>Rating | Model Number and Connector |         |         |         |         |             |             | VSWR 698-2700 MHz |        |
|------------------|----------------------------|---------|---------|---------|---------|-------------|-------------|-------------------|--------|
|                  | †SMA(f)                    | N(f)    | N(m)    | 7-16(f) | 7-16(m) | §4.1-9.5(f) | §4.1-9.5(m) | typ.              | max.   |
| 100W avg.        | TK-27FF                    | TK-27FN | TK-27MN | -       | -       | -           | -           | 1.10:1‡           | 1.15:1 |
|                  | -                          | -       | -       | TK-27FD | TK-27MD | TK-27FC     | TK-27MC     | 1.10:1‡           | 1.20:1 |

\*Derate Avg Power by -1.2%/°C above 55°C ambient †SMA ver. made to order ‡see below for 400-698 MHz §Mini-DIN Connector



TK-27MN (100W)

