

- ◆ Very Low PIM
- ◆ 10, 30 & 100W
- ◆ Low VSWR
- ◆ Convenient Size
- ◆ Intimate cable contact
- ◆ IP67 and RoHS compliant
- ◆ For outdoor applications
- ◆ 7-16, N & SMA connectors



Microlab TK-20 series 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.

The Cable Terminations for 30W and higher require a finned heat sink and black painted finish to dissipate the heat, similar to that found on resistive loads and assumes an ambient temperature up to +55°C. (06/12)

Frequency: 400 - 2700 MHz - TK-27 series  
698 - 2700 MHz - TK-21/23 ser

PIM: -165 dBc typ; <-160 dBc, with 2 1900 MHz 20W tones at 25°C

Power Rating: 5 kW peak

Environment: -35 to +55°C ambient, IP67 (except TK-21 for indoor use only)

Surface Temp: +90°C max. (per IEC 60950)

Impedance: 50Ω nom.

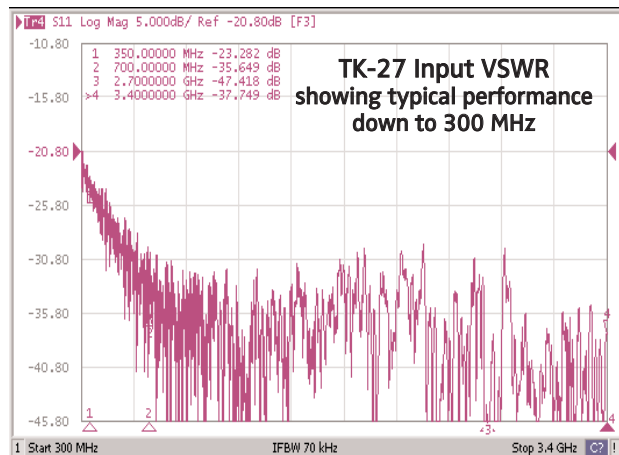
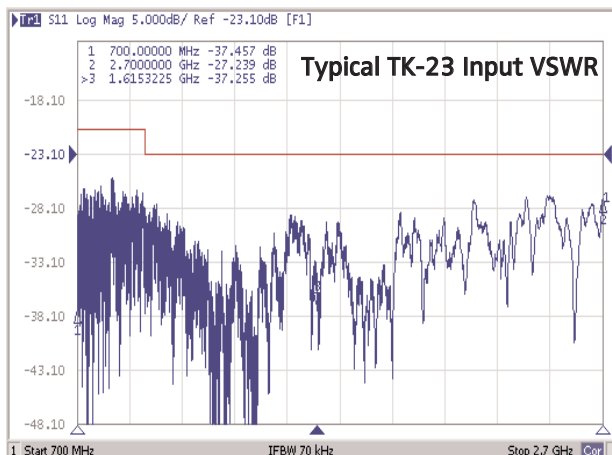
Connector Finish: Triplate

Power* Rating	Model Number and Connector						VSWR 698-2700 MHz		Weight nom. lb (kg)
	SMA (f)	SMA (m)	N (f)	N (m)	7-16 (f)	7-16 (m)	typ.	max.	
10W avg.	TK-21FF <sup>†</sup>	TK-21MF <sup>†</sup>	TK-21FN	TK-21MN	TK-21FD <sup>†</sup>	TK-21MD <sup>†</sup>	1.10:1	1.20:1	0.35 (0.16)
30W avg.	-	-	TK-23FN	TK-23MN	-	-	1.10:1	1.20:1	1.45 (0.66)
100W avg.	TK-27FF	-	TK-27FN	TK-27MN	TK-27FD	TK-27MD	1.10:1 <sup>‡</sup>	1.15:1 <sup>‡</sup>	5.55 (2.50)

\*Derate Average Power by -1.2%/°C above 55°C ambient

<sup>†</sup>SMA, 7-16 versions made to order

<sup>‡</sup>see below for 400-698 MHz





**TK-27MN (100W)**
