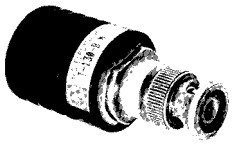
Precision and High Power Terminations



RLC Electronics' Precision Coaxial Terminations provide extremely low VSWR, 50 ohm matched terminations over broad frequency ranges in a wide selection of connectors and power ranges. The Coaxial High Power Terminations provide low VSWR terminations over a full range of RF frequencies. These units utilize either a precision coaxial structure as the terminating element or a lossy dielectric medium. Heat transfer is accomplished efficiently by the utilization of cooling fins. These units are conservatively rated so that for short periods of time, they may be operated at 200% of rated power. Forced air cooling over the load will allow continuous overload operation. These highpower loads are designed for use in 50 ohm systems.

Specifications

T-1-2-3

Model	Power Rating		VSWR		Conn. Types Available*	Size "A" Max
T-13-	1 Watt Avg. 1 kW Peak	DC-1 GHz	1-4 GHz	4-12.4 GHz	Male or Female	(In)
		1.04	1.07	1.15	N	1.45
		1.10	1.20	1.30	TNC	1.32
		1.10	–	–	BNC	1.32
		1.04	1.07	1.15	SMA	1.16
T-18-	1 Watt Avg. 1 kW Peak	DC-4 GHz	4-12.4 GHz	12.4-18 GHz	Male or Female	(In)
		1.07	1.15	1.15	SMA	1.16
T-30-	10 Watt Avg. 1 kW Peak	DC-1 GHz	1-4 GHz	4-12.4 GHz	Male or Female	(In)
					BNC/TNC	2.06
		1.10	1.20	1.30	SMA	2.24
						1.50
T-180-	10 WattS Avg. 1 kW Peak	DC-4 GHz	4-12.4 GHz	12.4-18 GHz	Male or Female	(In)
		1.10	1.20	1.30	N	2.06
					SMA	1.90
T-500-	50 Watt Avg.	DC-1 GHz	1-3 GHz	–	Male or Female	(In)
					N	6.10
		1.10	1.25	–	TNC	6.10
					BNC	6.10
					SMA	6.10
						5.53
T-105-	10 Watt Avg. 10 kW Peak	1-2 GHz	2-18 GHz	–	Male or Female	(In)
					TNC	6.24
		1.35	1.25	–	TNC	6.13
					SMA	5.95
T-1005-	175 Watt Avg. 10 kW Peak	1-8.5 GHz	8.5-12.4 GHz	–	Male or Female	(In)
					N	12.08
		1.30	1.30	–	TNC	11.97
					SMA	11.80

Weight: T-13, T-18 -- 2oz
T-130, T-105 -- 4oz
T-500 -- 14oz
T-1005 -- 4lbs

Environment: MIL-D-39030

*BNC not recommended for use above 1 GHz
TNC not recommended for use above 12.4 GHz

To designate the termination desired use:

(1) 13, 105 etc for model number
(2) N, B (BNC), T (TNC), R (SMA), for connectors
(3) "M" for Male, "F" for Female

Example: T-130-N-M is a DC - 12.4 GHz termination with N, male connectors

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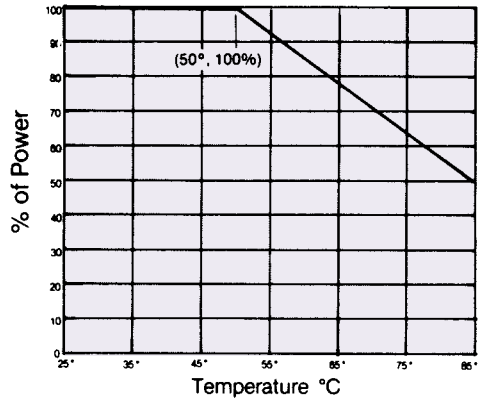
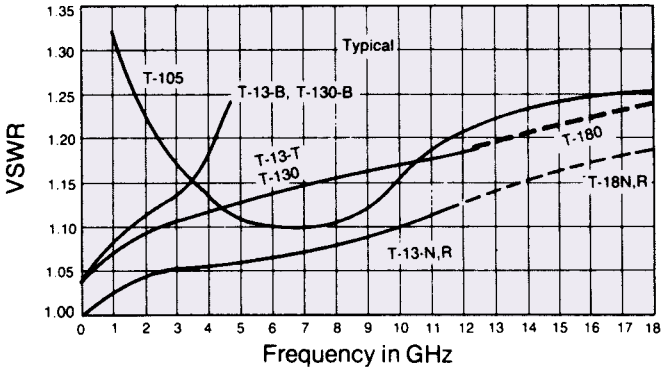
Typical Operating Curves

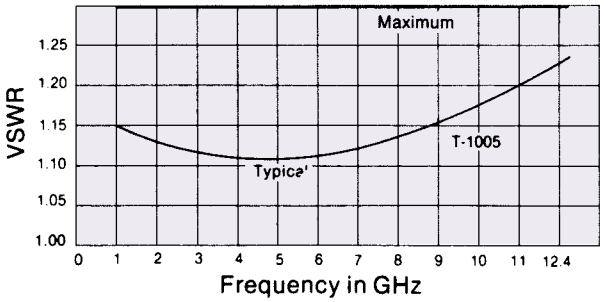
Derating Curve



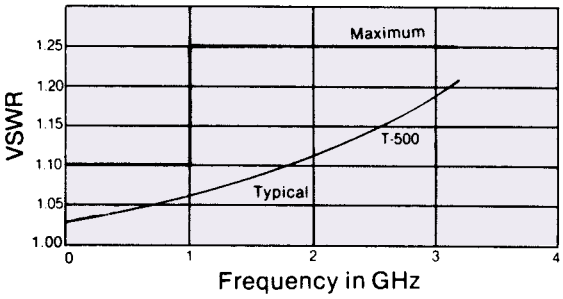
VSWR Vs. Frequency



VSWR Vs. Frequency

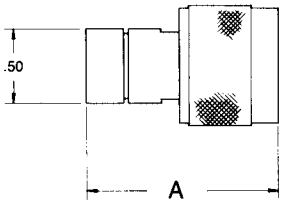


VSWR Vs. Frequency

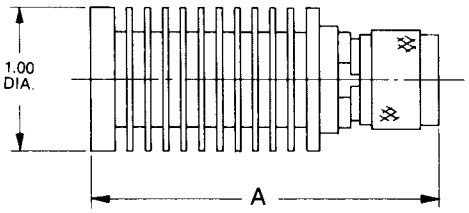


Outline Drawing

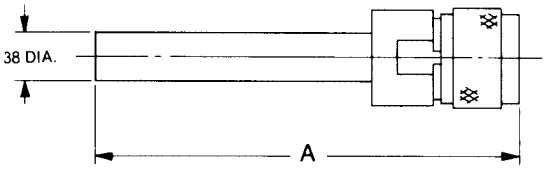
T-13, T-18



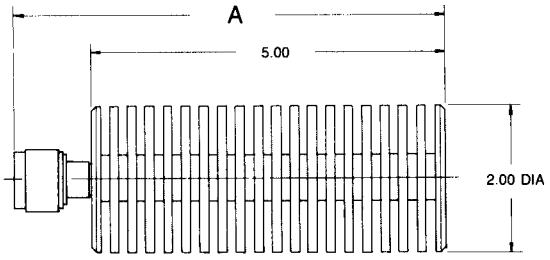
T-130, T-180



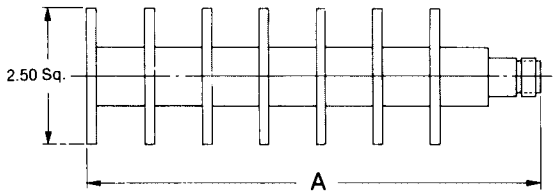
T-105



T-500



T-1005



Tolerances unless otherwise specified are: .xx, ± .02; .xxx, ± .005.

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