



RF Power Loads

CONDUCTION-COOLED

Dry Conduction-Cooled RF Power Loads are world-renowned for their high-quality, robust construction and conservative power ratings. The use of non-magnetic materials and plating provide safety when used in applications with high magnetic fields such as MRI.

LOAD CONFIGURATION GUIDE

POWER RATING	PRODUCT TYPE	CONNECTOR GENDER	CONNECTORS*
See selection guide	T, WT = Convection-cooled CT = Conduction-cooled ST = Square convection-cooled	F = Female M = Male	A = SMA B = BNC N = N T = TNC E = IEC 7/16

*Call for custom connector options not shown in this catalog

Example: 25-CT-FB= Model 25-CT, 25W, conduction-cooled load with female BNC connectors.

Note: Not all combinations are valid. If assistance is needed consult the factory to define the model that is right for you.

LOAD SELECTION GUIDE

MODEL	POWER RATING	CONNECTORS	FREQUENCY RANGE & VSWR	DIMENSIONS	WEIGHT
25-CT	25 W	SMA	DC to 1 GHz @ 1.15:1 max 1 to 3 GHz @ 1.25:1 max	0.9 in x 1.0 in x 0.5 in (23 x 26 x 13 mm)	0.4 oz (12 g)
50-CT	50 W	SMA	DC to 3 GHz @ 1.15:1 max 3 to 6 GHz @ 1.25:1 max	0.8 in x 0.9 in x 0.4 in (21 x 23 x 11 mm)	1.1 oz (32 g)
100-CT	100W	SMA	DC to 2 GHz @ 1.15:1 max 2 to 3 GHz @ 1.25:1 max	1.4 in x 1.4 in x 0.6 in (36 x 36 x 16 mm)	1.0 oz (30 g)
150-CT	150W	N	DC to 2 GHz @ 1.15:1 max 2 to 3 GHz @ 1.25:1 max	1.9 in x 1.2 in x 1.1 in (49 x 31 x 28 mm)	2.2 oz (63 g)
150-CT	150W	SMA	DC to 2 GHz @ 1.15:1 max 2 to 3 GHz @ 1.25:1 max	2.1 in x 2.1 in x 0.6 in (54 x 54 x 16 mm)	2.2 oz (63 g)
151-CT	150W	N	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	2.0 in x 2.0 in x 1.1 in (51 x 51 x 28 mm)	2.2 oz (63 g)
250-CT	250W	BNC, N	DC to 1 GHz @ 1.10:1 max 1 to 2.4 GHz @ 1.25:1 max	2.5 in x 2.2 in x 1.1 in (64 x 56 x 28 mm)	5.2 oz (148 g)
250-CT	250W	SMA	DC to 2 GHz @ 1.15:1 max 2 to 3 GHz @ 1.25:1 max	2.1 in x 2.1 in x 0.6 in (54 x 54 x 16 mm)	5.2 oz (148 g)
300-CT	300W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.25:1 max	4.8 in x 2.0 in x 1.2 in (122 x 51 x 31 mm)	12 oz (340 g)
500-CT	500W	SMA, BNC, N, TNC	DC to 1 GHz @ 1.15:1 max 1 to 3 GHz @ 1.30:1 max	2.7 in x 2.0 in x 1.2 in (69 x 51 x 31 mm)	8.2 oz (233 g)

PRODUCT FEATURES

- Ultra-compact, lightweight design
- Economical design
- Fully shielded against production of extraneous radiation
- Load requires no AC power
- Requires a heatsink capable of maintaining a case temperature at or below 100°C

SYSTEM

Coolant Method	Dry, conduction-cooled
Impedance	50 Ohms
AC Power	None
Finish	Tri-alloy
Operating Position	Any

ENVIRONMENTAL

Water Inlet Temperature	-40 °C to 40 °C (40 °F to 104 °F)
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