

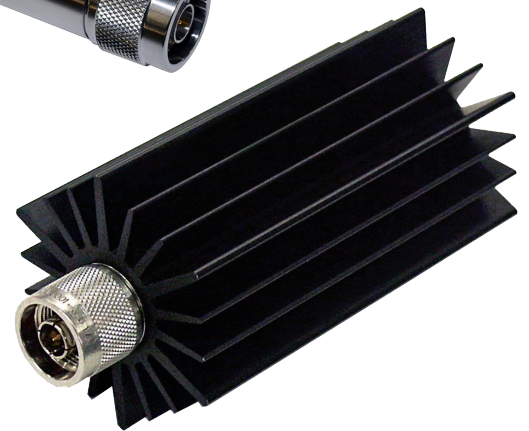
RF POWER LOADS

Self Cooling with Conservative Power Ratings

Bird's manufactures a broad line of Convection-Cooled RF Loads. They are known for their high-quality, rugged construction and conservative power ratings. These loads are fully shielded against production of extraneous radiation and the self-cooling design needs no cooling plate.

PRODUCT FEATURES

- Self cooling design, needs no cooling plate
- Frequencies up to 18 GHz
- Load requires no AC power
- Rugged construction
- Broadband operation



Specifications

SYSTEM

Coolant Method	Dry, convection-cooled
Impedance	50 Ohm
AC Power	None except 1500 W models require 115/230V AC power

ENVIRONMENTAL

Ambient Temperature	-40 °C to 40 °C (-40 °F to 104 °F)
Humidity	95% noncondensing

CONVECTION COOLED

RF POWER LOADS

PART NUMBER DEFINITION

Example: 2-T-FB= 2 W, Convection-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 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

LOAD SELECTION GUIDE

Model	Power Rating	Connectors	Frequency Range & VSWR	Dimensions	Weight	Finish
2-T	2 W	BNC, 7/16 DIN, N, TNC	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	2.9 in x 1.4 in dia (74 mm x 36 dia mm)	4.6 oz (131 g)	Tri-Alloy
2-NT	2 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.15:1 max	2.9 in x 1.4 in dia (74 mm x 36 dia mm)	4.6 oz (131 g)	Tri-Alloy
2-18T	2 W	SMA, N	DC to 12.4 GHz @ 1.20:1 max 12.4 to 18 GHz @ 1.25:1 max	1.0 in x 0.9 in dia (26 mm x 23 dia mm)	2.0 oz (57 g)	Stainless Steel
5-T	5 W	BNC, 7/16 DIN, N, TNC	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	2.9 in x 1.4 in dia (74 mm x 36 dia mm)	4.6 oz (131 g)	Tri-Alloy
5-NT	5 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.25:1 max	2.9 in x 1.4 in dia (74 mm x 36 dia mm)	4.6 oz (131 g)	Tri-Alloy
5-18T	5 W	SMA, N	DC to 4 GHz @ 1.15:1 max 4 to 12.4 GHz @ 1.25:1 max 12.4 to 18 GHz @ 1.35:1 max	1.4 in x 0.9 in dia (36 mm x 23 dia mm)	2.0 oz (57 g)	Stainless Steel
10-T	10 W	10 W	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.15:1 max	2.2 in x 2.3 in dia (56 mm x 59 dia mm)	5.9oz (168 g)	Black Anodized Aluminum
25-T	25 W	SMA, BNC, 7/16 DIN, N, TNC, 4.1/9.5	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	5.3 in x 2.3 in dia (135 mm x 59 dia mm)	7 oz (199 g)	Black Anodized Aluminum
25-NT	25 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.25:1 max	4.9 in x 2.3 in dia (125 mm x 59 dia mm)	7 oz (199 g)	Black Anodized Aluminum
25-6T	25 W	N	DC to 6 GHz @ 1.20:1 max	3.5 in x 2.3 in x 2.3 in (89 mm x 59 mm x 59 mm)	14.0 oz (397 g)	Black Anodized Aluminum
25-18T	50 W	N	DC to 6 GHz @ 1.20:1 max 6 to 12.4 GHz @ 1.30:1 max 12.4 to 18 GHz @ 1.40:1 max	3.5 in x 2.3 in x 2.3 in (89 mm x 59 mm x 59 mm)	14.0 oz (397 g)	Black Anodized Aluminum
50-T	50 W	SMA, BNC, 7/16 DIN, N, TNC, 4.1/9.5	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	5.3 in x 2.3 in dia (135 mm x 59 dia mm)	1.3 lb (590 g)	Black Anodized Aluminum
50-NT	50 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.15:1 max	5.3 in x 2.3 in dia (135 mm x 59 dia mm)	1.2 lb (545 g)	Black Anodized Aluminum
50-6T	50 W	N	DC to 1 GHz @ 1.20:1 max	4.0 in x 3.0 in x 3.0 in (102 mm x 77 mm x 77 mm)	1.6 lb (726 g)	Black Anodized Aluminum

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CONVECTION COOLED

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LOAD SELECTION GUIDE

Model	Power Rating	Connectors	Frequency Range & VSWR	Dimensions	Weight	Finish
50-18T	100 W	N	DC to 6 GHz @ 1.25:1 max 6 to 12.4 GHz @ 1.35:1 max 12.4 to 18 GHz @ 1.45:1 max	4.0 in x 3.0 in x 3.0 in (102 mm x 77 mm x 77 mm)	1.6 lb (726 g)	Black Anodized Aluminum
75-T	100 W	BNC, 7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.20:1 max	7.2 in x 2.3 in dia (183 mm x 59 dia mm)	1.5 lb (682 g)	Black Anodized Aluminum
100-T	100 W	BNC, 7/16 DIN, N, TNC	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.25:1 max	6.8 in x 6.4 in x 2.6 in (173 mm x 163 mm x 67 mm)	3.6 lb (1.6 kg)	Black Anodized Aluminum
100-ST	100 W	BNC, 7/16 DIN, N, TNC	DC to 1 GHz @ 1.10:1 max 1 to 4 GHz @ 1.25:1 max	7.4 in x 2.8 in x 2.8 in (188 mm x 72 mm x 72 mm)	2.7 lb (1.2 kg)	Black Anodized Aluminum
100-NST	100 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3 GHz @ 1.20:1 max	7.3 in x 2.8 in x 2.8 in (186 mm x 72 mm x 72 mm)	2.7 lb (1.2 kg)	Black Anodized Aluminum
100-6T	100 W	N	DC to 2 GHz @ 1.20:1 max 2 to 4 GHz @ 1.30:1 max 4 to 6 GHz @ 1.40:1 max	5.5 in x 3.5 in x 3.8 in (140 mm x 89 mm x 97 mm)	2.2 lbs (1.0 kg)	Black Anodized Aluminum
150-T	150 W	BNC, N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	6.8 in x 11.5 in x 2.6 in (173 mm x 293 mm x 67 mm)	6.0 lb (2.8 kg)	Black Anodized Aluminum
150-ST	150 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	8.1 in x 4.0 in x 4.0 in (206 mm x 102 mm x 102 mm)	5.0 lb (2.3 kg)	Black Anodized Aluminum
150-WT	150 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	4.9 in x 5.4 in x 4.8 in (125 mm x 138 mm x 122 mm)	2.5 lb (1.2 kg)	Black Anodized Aluminum
300-T	300 W	N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	7.4 in x 5.4 in x 10.9 in (188 mm x 138 x 277 mm)	11.5 lb (5.3 kg)	Black Anodized Aluminum
300-WT	300 W	7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	8.2 in x 5.4 in x 4.8 in (209 mm x 138 x 122 mm)	4.7 lb (2.2 kg)	Black Anodized Aluminum
500-WT	500 W	7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	11.0 in x 5.4 in x 4.8 in (280 mm x 138 mm x 122 mm)	7.8 lb (3.6 kg)	Black Anodized Aluminum
600-T	600 W	7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	12.4 in x 9.6 in x 7.4 in (315 mm x 244 mm x 188 mm)	21.5 lb (9.8 kg)	Black Anodized Aluminum
1000-T	1 kW	N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	12.3 in x 9.6 in x 12.8 in (313 mm x 244 mm x 326 mm)	26.5 lb (12.0 kg)	Black Anodized Aluminum
1000-WT	1 kW	7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 3.0 GHz @ 1.25:1 max	18.5 in x 10.6 in x 4.8 in (470 mm x 270 mm x 122 mm)	26.5 lb (12.0 kg)	Black Anodized Aluminum
1500-WT**	1.5 kW	7/16 DIN, N	DC to 1 GHz @ 1.10:1 max 1 to 2.4 GHz @ 1.25:1 max	20 in x 10.6 in x 6.0 in (508 mm x 270 mm x 152 mm)	30.0 lb (13.6 kg)	Black Anodized Aluminum
1500-WA**	1.5 kW	N	DC to 1 GHz @ 1.10:1 max 1 to 2.4 GHz @ 1.25:1 max	20.4 in x 10.7 in x 5.9 in (519 mm x 272 mm x 150 mm)	30.0 lb (13.6 kg)	Black Anodized Aluminum

**1.5 kW Models require 115/230V AC Power



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