

Convection Cooled Loads



- Self cooling design, needs no cooling plate
- Frequencies up to 18 GHz
- Fully shielded against production of extraneous radiation
- Load requires no AC power
- Rugged Construction
- Broadband Operation

Coolant Method	Dry, Convection Cooled	Ambient Temperature	-40°C to 40°C
Impedance	50 Ohm	AC Power	None**
Operating Position	Any	Humidity	95% non-condensing
PIM	-110 dBc Min.		

	Power Rating	Connector	VSWR & Frequency Range	Dimensions (LxWxH)	Weight	Finish
2-T	2 W	SMA, BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	2.9" x 1.4" Dia 74 x 36 Dia. mm	4.6 oz. 131 g	Tri-alloy
2-NT	2 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.15:1 from 1 to 3 GHz	2.9" x 1.4" Dia 74 x 36 Dia. mm	4.6 oz. 131 g	
2-18T	2 W	SMA, N	1.20:1 from DC to 12.4 GHz 1.25:1 from 12.4 to 18 GHz	1.0" x 0.9" Dia. 26 x 23 Dia. mm	2.0 oz. 57 g	Stainless Steel
5-T	5 W	BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	2.9" x 1.4" Dia 74 x 36 Dia. mm	4.6 oz. 131 g	Tri-alloy
5-NT	5 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	2.9" x 1.4" Dia 74 x 36 Dia. mm	4.6 oz. 131 g	
5-18T	5 W	SMA, N	1.15:1 from DC to 4 GHz 1.25:1 from 4 to 12.4 GHz 1.35:1 from 12.4 to 18 GHz	1.4" x 0.9" Dia. 36 x 23 Dia. mm	2.0 oz. 57 g	Stainless Steel
10-T	10 W	SMA, BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	2.6" x 2.3" Dia. 67 x 59 Dia. mm	3 oz. 86 g	Black Anodized Aluminum
10-NT	10 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.15:1 from 1 to 3 GHz	2.2" x 2.3" Dia. 56 x 59 Dia. mm	5.9oz. 168 g	
10-18T	10 W	SMA, N	1.15:1 from DC to 4 GHz 1.25:1 from 4 to 12.4 GHz 1.35:1 from 12.4 to 18 GHz	1.7" x 1.0" Dia. 44 x 26 Dia. mm	2.0 oz. 57 g	
25-T	25 W	SMA, BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	5.3" x 2.3" Dia. 135 x 59 Dia. mm	7 oz. 199 g	
25-NT	25 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	4.9" x 2.3" Dia. 125 x 59 Dia. mm	7 oz. 199 g	
25-6T	25 W	SMA, N	1.20:1 from DC to 6 GHz	3.5" x 2.3" x 2.3" 89 x 59 x 59 mm	14.0 oz. 397 g	
25-18T	25 W	SMA, N	1.20:1 from DC to 6 GHz 1.30:1 from 6 to 12.4 GHz 1.40:1 from 12.4 to 18 GHz	3.5" x 2.3" x 2.3" 89 x 59 x 59 mm	14.0 oz. 397 g	

**1500 W models require 115/230V AC power

Convection Cooled Loads



CONVECTION COOLED LOAD PART NUMBER DEFINITION

POWER RATING (WATTS)	PRODUCT TYPE	CONNECTOR GENDER	CONNECTORS*
See chart below for models	T, WT – Convection-cooled CT – Conduction-cooled ST – Square Convection Cooled	F – Female M – Male	A – SMA B – BNC E – IEC 7/16 N – N T – TNC MD – Mini DIN-IEC 4.1/9.5

*Call for custom connector options not shown in this catalog

	Power Rating	Connector	VSWR & Frequency Range	Dimensions (LxWxH)	Weight	Finish
50-T	50 W	SMA, BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	5.3" x 2.3" Dia. 135 x 59 Dia. mm	1.3 lbs. 590 g	Black Anodized Aluminum
50-NT	50 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.15:1 from 1 to 3 GHz	5.3" x 2.3" Dia. 135 x 59 Dia. mm	1.2 lbs. 545 g	
50-6T	50 W	N	1.20:1 from DC to 6 GHz	4.0" x 3.0" x 3.0" 102 x 77 x 77 mm	1.6 lbs. 726 g	
50-18T	50 W	N	1.25:1 from DC to 6 GHz 1.35:1 from 6 to 12.4 GHz 1.45:1 from 12.4 to 18 GHz	4.0" x 3.0" x 3.0" 102 x 77 x 77 mm	1.6 lbs. 726 g	
75-T	75 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.20:1 from 1 to 3 GHz	7.2" x 2.3" Dia. 183 x 59 Dia. mm	1.5 lbs. 682 g	
100-T	100 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	6.8" x 6.4" x 2.6" 173 x 163 x 67 mm	3.6 lbs. 1.6 kg	
100-ST	100 W	BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 4 GHz	7.4" x 2.8" x 2.8" 188 x 72 x 72 mm	2.7 lbs. 1.2 kg	
100-NST	100 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.20:1 from 1 to 3 GHz	7.3" x 2.8" x 2.8" 186 x 72 x 72 mm	2.7 lbs. 1.2 kg	
100-6T	100 W	N	1.20:1 from DC to 2 GHz 1.30:1 from 2 to 4 GHz 1.40:1 from 4 to 6 GHz	5.5" x 3.5" x 3.8" 140 x 89 x 97 mm	2.2 lbs. 1.0 kg	
150-T	150 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3.0 GHz	6.8" x 11.5" x 2.6" 173 x 293 x 67 mm	6.0 lbs. 2.8 kg	
150-ST	150 W	BNC, 7/16 DIN, N, TNC, MD	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3.0 GHz	8.1" x 4.0" x 4.0" 206 x 102 x 102 mm	5.0 lbs. 2.3 kg	
150-WT	150 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	4.9" x 5.4" x 4.8" 125 x 138 x 122 mm	2.5 lbs. 1.2 kg	
300-T	300 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	7.4" x 5.4" x 10.9" 188 x 138 x 277 mm	11.5 lbs. 5.3 kg	
300-WT	300 W	BNC, 7/16 DIN, N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	8.2" x 5.4" x 4.8" 209 x 138 x 122 mm	4.7 lbs. 2.2 kg	
500-WT	500 W	7/16 DIN, N	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	11.0" x 5.4" x 4.8" 280 x 138 x 122 mm	7.8 lbs. 3.6 kg	
600-T	600 W	7/16 DIN, N	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	12.4" x 9.6" x 7.4" 315 x 244 x 188 mm	21.5 lbs. 9.8 kg	
1000-T	1000 W	7/16 DIN, N	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	12.3" x 9.6" x 12.8" 313 x 244 x 326 mm	26.5 lbs. 12.0 kg	
1000-WT	1000 W	7/16 DIN, N	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	18.5" x 10.6" x 4.8" 470 x 270 x 122 mm	26.5 lbs. 12.0 kg	
1500-WT**	1500 W	7/16 DIN, N	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 2.4 GHz	20" x 10.6" x 6.0" 508 x 270 x 152 mm	30.0 lbs. 13.6 kg	

**1500 W Models require 115/230V AC Power

Conduction Cooled Loads



- Ultra compact, lightweight design
- Economical design
- Fully shielded against production of extraneous radiation
- Load requires no AC power
- 750, 1500, and 2500 W models rated for 13dB Peak Power

Coolant Method	Dry, Conduction Cooled	Max Flange Temp for Full Rated Power	-40°C to 40°C
Impedance	50 Ohm	AC Power	None
Operating Position	Any	Humidity	95% non-condensing
PIM	-110 dBc Min.		

	Power Rating	Connector	VSWR & Frequency Range	Dimensions (LxWxH)	Weight	Finish
25-CT	25 W	SMA	1.15:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	0.9" x 1.0" x 0.5" (23 x 26 x 13 mm)	0.4 oz 12 g	Tri-alloy
50-CT	50 W	SMA	1.15:1 from DC to 3 GHz 1.25:1 from 3 to 6 GHz	0.8" x 0.9" x 0.4" (21 x 23 x 11 mm)	1.1 oz 32 g	
100-CT	100 W	SMA	1.15:1 from DC to 2 GHz 1.25:1 from 2 to 3 GHz	1.4" x 1.4" x 0.6" (36 x 36 x 16 mm)	1.0 oz 30 g	
150-CT	150 W	N, TNC	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	1.9" x 1.2" x 1.1" (49 x 31 x 28 mm)	2.2 oz 63 g	
		SMA	1.15:1 from DC to 2 GHz 1.25:1 from 2 to 3 GHz	2.1" x 2.1" x 0.6" (54 x 54 x 16 mm)		
151-CT	150 W	N	1.10:1 from DC to 1 GHz	2.0" x 2.0" x 1.1"	2.2 oz. 63 g	
			1.25:1 from 1 to 4 GHz	(51 x 51 x 28 mm)		
250-CT	250 W	BNC, N, TNC	1.10:1 from DC to 1 GHz	2.5" x 2.2" x 1.1"	5.2 oz. 148 g	
			1.25:1 from 1 to 2.4 GHz	(64 x 56 x 28 mm)		
		SMA	1.15:1 from DC to 2 GHz 1.25:1 from 2 to 3 GHz	2.1" x 2.1" x 0.6" (54 x 54 x 16 mm)		
300-CT	300 W	BNC, N, TNC, 7/16 DIN	1.10:1 from DC to 1 GHz 1.25:1 from 1 to 3 GHz	4.8" x 2.0" x 1.2" (122 x 51 x 31 mm)	12 oz. 340 g	
500-CT	500 W	SMA, BNC, N, TNC, 7/16 DIN	1.10:1 from DC to 1 GHz 1.30:1 from 1 to 3 GHz	2.7" x 2.0" x 1.2" (69 x 51 x 31 mm)	8.2 oz. 233 g	
750-CT	750 W	7/16 DIN	1.2:1 from DC - 250 MHz 1.3:1 from 250 - 1000 MHz	5.4" x 3.0" x 1.5" (138 x 78 x 38 mm)	2.3 lbs 1.1 kg	Al / Cu
1500-CT	1500 W	7/16 DIN	1.2:1 from DC - 250 MHz 1.3:1 from 250 - 1000 MHz	8.1" x 3.0" x 1.5" (208 x 78 x 38 mm)	3.5 lbs 1.6 kg	
2500-CT	2500 W	7/16 DIN	1.2:1 from DC - 250 MHz 1.3:1 from 250 - 1000 MHz	9.4" x 3.0" x 1.5" (240 x 78 x 38 mm)	4.2 lbs 2.0 kg	

Oil Loads



- Wide range of available RF input connectors
- Compact design
- Capable of up to 10 dB peak to average power ratios
- Broadband operation
- Self-contained cooling system that includes cooling fans for higher power models

Altitude	1520 m (5000 ft.)	Finish	Gray Powder Coat
Humidity	95% noncondensing max	Load Coolant	8135, 8201, 8251: Refined Mineral Oil All Others: Silicone Oil
Impedance	50 Ohms Nominal	CE	EMC EN 61326-1:2006 (units w/blowers) and Safety EN 61010-1:2001 (all units)
Ambient Temperature Range	-40°C to +45°C		
Operating Position	Vertical Only		

	Power Rating	Frequency Range/VSWR	Cooling Method	Connector	Dimensions	Weight
8135	150 W	DC to 1 GHz at 1.1:1 max 1 to 2 GHz at 1.2:1 max 2.5 to 4 GHz at 1.3:1 max	Convection	QC - N(f)	9.6" x 6.5" x 4" 242mm x 164mm x 102mm	6.0 lbs. 2.7 kg
8141	250 W	DC to 1 GHz at 1.1:1 max 1 to 1.8 GHz at 1.2:1 max 1.8 to 2.5 GHz at 1.3:1 max	Convection	QC - N(f)	9.6" x 8.5" x 6" 243mm x 216mm x 151mm	10 lbs. 4.5 kg
8201	500 W	DC to 1 GHz at 1.1:1 max 1 to 2.5 GHz at 1.25:1 max	Convection	QC - N(f)	16.8" x 8.5" x 6" 427mm x 216mm x 151mm	20 lbs. 9.1 kg
8401	600 W	DC to 1 GHz at 1.1:1 max 1 to 2.8 GHz at 1.2:1 max 2.8 to 3 GHz at 1.3:1 max	Convection	QC - N(f)	16.2" x 8.5" x 6" 408mm x 216mm x 151mm	20 lbs. 9.1 kg
8251	1000 W	DC to 1 GHz at 1.1:1 max 1 to 2 GHz at 1.25:1 max 2 to 2.4 GHz at 1.3:1 max	Convection	QC - LC(f)	17.9" x 8.5" x 6" 455mm x 216mm x 151mm	25 lbs. 11.5 kg
8860 8861 8862 8863 8864	1500 W	DC to 1 GHz at 1.1:1 max 1 to 2 GHz at 1.25:1 max	Convection	QC - LC(f) 1-5/8 EIA Unflg 1-5/8 EIA Flg 3-1/8 EIA Unflg 3-1/8 EIA Flg	19.5" x 7.5" x 13.2" 496mm x 184mm x 334mm	32 lbs. 14.5 kg
8890-300 8891-300 8892-300 8895-300	2500 W		Convection	QC - LC(f) 3-1/8 EIA Flg 1-5/8 EIA Flg 1-5/8 EIA Unflg	25.2" x 7" x 17.2" 638mm x 178mm x 437mm	59 lbs. 27 kg
8890-315 8890-320 8891-315 8891-320 8892-315 8892-320 8895-315 8895-320 8897-315 8897-320	5000 W	DC to 1 GHz at 1.1:1 max 1 to 2 GHz at 1.25:1 max 2 to 2.4 GHz at 1.3 max	115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan	QC - LC(f) QC - LC(f) 3-1/8 EIA Flg 1-5/8 EIA Flg 1-5/8 EIA Unflg	25.2" x 7.4" x 22.7" 638mm x 187mm x 560mm	73 lbs. 33 kg
8921 8922 8926 8927	5000 W	DC to 1 GHz at 1.1:1 max	Convection	QC - LC(f) 1-5/8 EIA Flg 3-1/8 EIA Flg 3-1/8 EIA Unflg	32.8" x 9.5" x 26.9" 832mm x 241mm x 681mm	126 lbs. 57 kg
8931-115 8931-230 8932-115 8932-230 8936-115 8936-230 8937-115 8937-230	10000 W	DC to 400 MHz at 1.15:1 max, 400 MHz to 1 GHz at 1.2:1 max	115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan 115 VAC Fan 230 VAC Fan	QC - LC(f) QC - LC(f) 1-5/8 EIA Flg 1-5/8 EIA Flg 3-1/8 EIA Flg 3-1/8 EIA Flg 3-1/8 EIA Unflg 3-1/8 EIA Unflg	32.8" x 9.5" x 33.4" 832mm x 241mm x 847mm	142 lbs. 65 kg

Market-Specific Oil Loads



- Compact design
- Tuned for optimal performance over target frequency ranges
- Capable of up to 10 dB peak to average power ratios
- Self-contained cooling system that includes fans for higher power levels
- Wide range of available RF input connectors

Impedance	50 Ohm
Altitude	5000 ft (1520 m)
Humidity	95% noncondensing max
Ambient Temperature Range	Digital Broadcast Loads: -40° to 113° F (-40° to 45° C) Semiconductor Precision Loads: 41° to 104° F (5° to 40° C)

Storage Temperature	-40° to 113° F (-40° to 45° C)
Operating Position	None
Load Coolant	Silicone Oil
Finish	Digital Broadcast Loads: Gray Powder Coat Semiconductor Precision Loads: Black Powder Coat

DIGITAL BROADCAST OIL LOADS

	Power Rating	Frequency Range/VSWR	Cooling Method	Connector	Dimensions	Weight	
8251D	1 kW	470-860 MHz at 1.065:1 VSWR Max	Convection	1-5/8 EIA Flg	17.9" x 8.5" x 6"	25 lbs.	
8251D7-16	1 kW			QC-DIN(F)	(455 mm x 216 mm x 151 mm)	11.5 kg	
8862D	1.5 kW			1-5/8 EIA Flg	19.5" x 7.5" x 13.2" (496 mm x 184 mm x 334 mm)	32 lbs. 14.5 kg	
8862D13-30	1.5 kW			13-30 IEC (M)			
8864D	1.5 kW			3-1/8 EIA Flg	25.2" x 7" x 17.2" (638 mm x 178 mm x 437 mm)	59 lbs. 27 kg	
8891D300	2.5 kW			3-1/8 EIA Flg			
8892D13-30	2.5 kW			13-30 IEC (M)			
8892D300	2.5 kW			1-5/8 EIA Flg	230 VAC Fan	1-5/8 EIA Flg	73 lbs. 33 kg
8892D320	5 kW						
8922D	5 kW			Convection	115 VAC Fan	1-5/8 EIA Flg	32.8" x 9.5" x 26.9" (832 mm x 241 mm x 681 mm)
8926D	5 kW	3-1/8 EIA Flg					
8927D	5 kW	3-1/8 EIA Flg					
8936D115	10 kW	470-860 MHz at 1.15:1 VSWR Max	115 VAC Fan	3-1/8 EIA Flg	32.8" x 9.5" x 33.4" (832 mm x 241 mm x 847 mm)	142 lbs. 65 kg	
8936D230	10 kW		230 VAC Fan	3-1/8 EIA Flg			

SEMICONDUCTOR PRECISION OIL LOADS

	Power Rating	Frequency Range/VSWR	Cooling Method	Connector	Dimensions	Weight		
8865SC13	1 kW	DC to 28 MHz at 1.10:1 VSWR max	Convection	QC-LC(F)	19.5" x 7.5" x 13.2" (496 mm x 184 mm x 334 mm)	32 lbs. 14.5 kg		
8890-300SC13	2.5 kW				25.2" x 7" x 17.2" (638 mm x 178 mm x 437 mm)	59 lbs. 27 kg		
8921SC13	5 kW				32.8" x 9.5" x 26.9" (832 mm x 241 mm x 681 mm)	126 lbs. 57 kg		
8931-115SC13	10 kW				115 VAC Fan	QC-LC(F)	32.8" x 9.5" x 33.4" (832 mm x 241 mm x 847 mm)	142 lbs. 65 kg
8931-230SC13	10 kW						230 VAC Fan	
8941-115SC13	15 kW						115 VAC Fan	
8941-230SC13	15 kW				230 VAC Fan	QC-DIN(F)	43" x 9.5" x 33.4" (1092 mm x 241 mm x 847 mm)	236 lbs. 107 kg

Econoloads

- Econoloads are the smallest load design for the power dissipated
- Utilizing an external water supply, the Econoloads have no input power requirements
- Surface cool to the touch
- May be mounted in any orientation
- Standard EIA RF connections and NPT Water connections



Impedance 50 Ohm

Finish 5 kW - Bright Nickel Plate
10kW - 80 kW - Black Powder Coat

Load Coolant Potable Water

Operating Position Any

Waterlines 5 kW, 8720 - 1/4" FPT
5 kW, 8726 - 3/4" Hose
10kW - 80 kW - 3/4" Hose

Water Inlet Temp. 5 kW - 5°C to 80°C
10kW - 80 kW - 5°C to 60°C

	Power Rating	Frequency Range/VSWR	Connector	Flow Rate	Dimensions	Weight
8720	5 kW	DC to 500 MHz at 1.1:1 max 500 to 900 MHz at 1.15:1 max 900 to 2000 MHz at 1.25:1 max	1-5/8" EIA Flg	1 GPM (4 LPM) @ 5°C to 4 GPM (15 LPM) @ 60°C	8.1" x 3.5" Dia. 204 mm x 89 mm Dia.	2 lbs. 2 oz. 964 g
8726	5 kW	DC to 500 MHz at 1.1:1 max 500 to 2000 MHz at 1.25:1 max	QC - LC(f)		10.5" x 1.7" Dia. 265 mm x 43 mm Dia.	2 lbs. 8 oz. 1.1 kg
8730A	10 kW	DC to 1 GHz at 1.1:1 max	1-5/8" EIA Flg		16.0" x 4.4" Dia. 406 mm x 111 mm Dia.	8 lbs. 3.6 kg
8731	10 kW	1 kHz to 1 GHz at 1.1:1 max	3-1/8" EIA Flg	4 GPM (15 LPM) @ 5°C to 6 GPM (23 LPM) @ 60°C	14.7" x 5.2" Dia. 372 mm x 132 mm Dia.	6 lbs. 4 oz. 2.9 kg
8738A	10 kW	1 kHz to 1 GHz at 1.1:1 max	3-1/8" EIA Unflg		16.0" x 4.4" Dia. 406 mm x 111 mm Dia.	6 lbs. 2.8 kg
8745	20 kW	1 kHz to 900 MHz at 1.1:1 max	3-1/8" EIA Flg	6 GPM (23 LPM) @ 5°C to 8 GPM (30 LPM) @ 60°C	19.5" x 5.2" Dia. 495 mm x 132 mm Dia.	15 lbs. 13 oz. 7.2 kg
8746	20 kW		3-1/8" EIA Unflg			15 lbs. 5 oz. 7.0 kg
8755	30 kW		3-1/8" EIA Flg	7 GPM (26 LPM) @ 5°C to 9 GPM (34 LPM) @ 60°C		15 lbs. 13 oz. 7.2 kg
8756	30 kW		3-1/8" EIA Unflg			15 lbs. 5 oz. 7.0 kg
8765	40 kW		3-1/8" EIA Flg	8 GPM (30 LPM) @ 5°C to 10 GPM (38 LPM) @ 60°C		15 lbs. 13 oz. 7.2 kg
8775	50 kW		3-1/8" EIA Flg	9 GPM (34 LPM) @ 5°C to 11 GPM (42 LPM) @ 60°C		15 lbs. 13 oz. 7.2 kg
8776	50 kW		3-1/8" EIA Unflg			15 lbs. 5 oz. 7.0 kg
8792	80kW		1 kHz to 800 MHz at 1.15:1 max	6-1/8" EIA Flg		9 GPM (34 LPM) @ 5°C to 12 GPM (46 LPM) @ 60°C

Digital Air Loads

DA Series

- Self-contained and convenient means of dissipating large amounts analog, digital, and combined signals
- Excellent VSWR performance with <1.05:1 typical VSWR (1.1:1 max) across rated frequency range
- Handles >13 dB Peak to Average power ratio
- Ductable exhaust and cool-to-the-touch exterior surfaces
- Double shielded against the production of extraneous radiation

VHF

Impedance	50 ohm nominal
VSWR (DC-240 MHz)	1.05:1 typical, 1.10:1 maximum
Cooling Method	Forced air-cooled
Peak to Average Power	>10 dB
Ambient Temperature	-40°C to +45°C (-40°F to +113°F)
Interlock Contact Rating	10 A @ 120 VAC, 5 A @ 250 VAC
Finish	Blue Powder Coat
AC Power Required	115 V/230 V 50/60 Hz
CE	EMC EN 61326-1:2006 and Safety EN 61010-1:2001

UHF

Impedance	50 ohm nominal
VSWR (470-890 MHz)	1.05:1 typical, 1.10:1 maximum
Cooling Method	Forced air-cooled
Peak to Average Power	>10 dB*
Ambient Temperature	-40°C to +45°C (-40°F to +113°F)
Interlock Contact Rating	10 A @ 120 VAC, 5 A @ 250 VAC
Finish	Blue Powder Coat
AC Power Required	115 V/230 V 50/60 Hz
CE	EMC EN 61326-1:2006 and Safety EN 61010-1:2001

*DA40 Peak to Average is 14 dB



Digital Air Loads

DA Series

	Connector	AC Power	Power Rating	Frequency Range	Dimensions (L x W x H)	Weight
DA10V1F15	1 5/8" Flanged	115 VAC	10 kW	0-240 MHz-AM, FM, VHF	23.5" x 23.5" x 59" 597 mm x 597 mm x 1499 mm	130 lbs. 58.97 kg
DA10V1U15	1 5/8" Unflanged					
DA10V1F30	1 5/8" Flanged	230 VAC				
DA10V1U30	1 5/8" Unflanged					
DA10V3F15	3 1/8" Flanged	115 VAC	10 kW	0-240 MHz-AM, FM, VHF	23.5" x 23.5" x 59" 597 mm x 597 mm x 1499 mm	130 lbs. 58.97 kg
DA10V3U15	3 1/8" Unflanged					
DA10V3F30	3 1/8" Flanged	230 VAC				
DA10V3U30	3 1/8" Unflanged					
DA25V3F15	3 1/8" Flanged	115 VAC	25 kW	0-240 MHz-AM, FM, VHF	27" x 27" x 61" 686 mm x 686 mm x 1549 mm	160 lbs. 72.57 kg
DA25V3U15	3 1/8" Unflanged					
DA25V3F30	3 1/8" Flanged	230 VAC				
DA25V3U30	3 1/8" Unflanged					
DA25V4U15	4 1/2" Unflanged	115 VAC	25 kW	0-240 MHz-AM, FM, VHF	27" x 27" x 61" 686 mm x 686 mm x 1549 mm	160 lbs. 72.57 kg
DA25V4U30	4 1/2" Unflanged	230 VAC				
DA5F15	3 1/8" Flanged	115 VAC	5 kW	470-890 MHz UHF	17" x 17" x 64" 495 mm x 495 mm x 1740 mm	100 lbs. 45.5 kg
DA5U15	3 1/8" Unflanged					
DA5F30	3 1/8" Flanged	230 VAC				
DA5U30	3 1/8" Unflanged					
DA10F15	3 1/8" Flanged	115 VAC	10 kW	470-890 MHz UHF	19.5" x 19.5" x 68.5" 432 mm x 432 mm x 1608 mm	130 lbs. 58.97 kg
DA10U15	3 1/8" Unflanged					
DA10F30	3 1/8" Flanged	230 VAC				
DA10U30	3 1/8" Unflanged					
DA15F15	3 1/8" Flanged	115 VAC	15 kW	470-890 MHz UHF	25" x 25" x 76.5" 635 mm x 635 mm x 1943 mm	192 lbs. 87.09 kg
DA15U15	3 1/8" Unflanged					
DA15F30	3 1/8" Flanged	230 VAC				
DA15U30	3 1/8" Unflanged					
DA25F15	4 1/16" Myat Flanged	115 VAC	25 kW	470-890 MHz UHF	27" x 27" x 76.5" 686 mm x 686 mm x 1943 mm	245 lbs. 111.13 kg
DA25U15	4 1/16" Myat Unflanged					
DA25F30	4 1/16" Myat Flanged	230 VAC				
DA25U30	4 1/16" Myat Unflanged					
DA25-4U15	4 1/2" IEC Unflanged	115 VAC	40 kW	470-890 MHz UHF	27.5" x 27.5" x 84" 701 mm x 701 mm x 2134 mm	310 lbs. 140.6 kg
DA25-4U30	4 1/2" IEC Unflanged	230 VAC				
DA40-5U15	4 7/8" IEC Unflanged	115 VAC				
DA40-5U30	4 7/8" IEC Unflanged	230 VAC				
DA40F15	6 1/8" IEC Flanged	115 VAC	40 kW	470-890 MHz UHF	27.5" x 27.5" x 84" 701 mm x 701 mm x 2134 mm	310 lbs. 140.6 kg
DA40F30	6 1/8" IEC Flanged	230 VAC				
DA40U30	6 1/8" IEC Unflanged	230 VAC				

Other models available, please consult factory.

Moduloads



- Forced-air heat exchanger cooled load for high-power applications up to 900 MHz
- High power RF dissipation with 10, 25 and 50 kW versions are available
- Available in models to work with 115 or 230 volts at 50 or 60 Hz
- Compact, low-profile design saves space in crowded transmitter sites
- Interlock control circuit provides fail-safe protection of the transmitter

Frequency Range	10kW - 1 kHz to 1000 MHz at 1.1:1 max 25 kW & 50 kW - 1 kHz to 900 MHz at 1.1:1 max	Operating Position	Horizontal Only
Finish	Gray Powder Coat	CE	EMC EN 61326-1:2006 and Safety EN 61010-1:2001
Load Coolant	100 % Water 35% Ethylene Glycol / 65% Water		

	Input Power	[Power Rating] Operating Temperature	Connector	Dimensions (Lx- WxH)	Weight		
8631B115	9.5 A @ 115V, 60Hz	[10 kW] 100% Water: +5°C to +45°C, 35% Ethylene Glycol / 65% Water: -20°C to +35°C	3-1/8" EIA Flg	24.6" x 15.9" x 17.5" 623 mm x 402 mm x 443 mm	113 lbs. 50.9 kg		
8631B230	4.75A @ 230V, 50Hz						
8631B230-6	4.75A @ 230V, 60Hz						
8635B115	9.5 A @ 115V, 60Hz		1-5/8" EIA Flg				
8635B230	4.75A @ 230V, 50Hz						
8638B115	9.5 A @ 115V, 60Hz						
8638B230	4.75A @ 230V, 50Hz	[25 kW] 100% Water: +5°C to +30°C, 35% Ethylene Glycol / 65% Water: -20°C to +25°C	3-1/8" EIA Unflg	28.5" x 19.6" x 20.9" 723 mm x 497 mm x 528 mm	155 lbs. 70 kg		
8638B230-6	4.75A @ 230V, 60Hz						
8645B115	11 A @ 115V, 60Hz	[20 kW] 100% Water: +5°C to +45°C, 35% Ethylene Glycol / 65% Water: -20°C to +35°C	3-1/8" EIA Flg				
8645B230	5.5 A @ 230V, 50Hz						
8645B230-6	5.5 A @ 230V, 60Hz	[50kW] 100% Water: +5°C to +35°C, 35% Ethylene Glycol / 65% Water: -20°C to +25°C	3-1/8" EIA Unflg			53" x 19.6" x 20.9" 1347 mm x 497 mm x 528 mm	275 lbs. 125 kg
8646B115	11 A @ 115V, 60Hz						
8646B230	5.5 A @ 230V, 50Hz	[40kW] 100% Water: +5°C to +45°C, 35% Ethylene Glycol / 65% Water: -20°C to +35°C	3-1/8" EIA Flg				
8646B230-6	5.5 A @ 230V, 60Hz						
8655B115-6	15 A @ 115V, 60Hz	[50kW] 100% Water: +5°C to +35°C, 35% Ethylene Glycol / 65% Water: -20°C to +25°C	3-1/8" EIA Flg				
8655B230-5	8 A @ 230V, 50Hz						
8655B230-6	8 A @ 230V, 60Hz	[40kW] 100% Water: +5°C to +45°C, 35% Ethylene Glycol / 65% Water: -20°C to +35°C	3-1/8" EIA Unflg				
8656B115-6	15 A @ 115V, 60Hz						
8656B230-5	8 A @ 230V, 50Hz						
8656B230-6	8 A @ 230V, 60Hz						