

TERMALINE®
RF COAXIAL TERMINATIONS
Dry Loads

TAYLOR

2 WATT

2-T SERIES*

£48.97

Power Rating:
 2 W max. @ 40°C
 2.4 W max. @ 25°C
Connectors: BNC, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 6 GHz at 1.25:1 max. (N type)
 1 GHz to 4 GHz at 1.25:1 max.
 (BNC and TNC)

Impedance: 50 ohms, nominal
Ambient Temperature Range: -40°C to +40°C
Operating Position: Any
Coolant: Dry (Convection cooled)
Finish: Silver or Tri-alloy plated
Nominal Size: (with Male N-type connector):
 1.6" L x 0.8" Dia., (40.7 mm x 20.4 mm)
Weight: 1.9 oz. (55 g)



5 WATT

5-T SERIES*

£59.18

Power Rating:
 5 W max. @ 40°C
 6 W max. @ 25°C
Connectors: BNC, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 6 GHz at 1.25:1 max. (N type)
 1 GHz to 4 GHz at 1.25:1 max.
 (BNC and TNC)

Impedance: 50 ohms, nominal
Ambient Temperature Range: -40°C to +40°C
Operating Position: Any
Coolant: Dry (Convection cooled)
Finish: Silver or Tri-alloy plated
Nominal Size: (with Male N-type connector):
 1.6" L x 0.8" Dia., (40.7 mm x 20.4 mm)
Weight: 1.9 oz. (55 g)



10 WATT

10-T SERIES*

£69.38

Power Rating:
 10 W max. @ 40°C
 12 W max. @ 25°C
Connectors: BNC, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 4 GHz at 1.25:1 max.
Impedance: 50 ohms, nominal

Ambient Temperature Range: -40°C to +40°C
Operating Position: Any
Coolant: Dry (Convection cooled)
Finish: Black anodized.
 Silver or Tri-alloy plated connector
Nominal Size: (with N-type connector):
 2" L x 2.3" Dia., (50.8 mm x 58.5 mm)
Weight: 5.1 oz. (146 g)



25 WATT

25-T SERIES*

£104.08

Power Rating:
 25 W max. @ 40°C
 30 W max. @ 25°C
Connectors: BNC, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 4 GHz at 1.25:1 max.
Impedance: 50 ohms, nominal

Ambient Temperature Range: -40°C to +40°C
Operating Position: Any
Coolant: Dry (Convection cooled)
Finish: Black anodized. Silver or Tri-alloy
 plated connector
Nominal Size: (with N-type connector):
 4.7" L x 2.3" Dia., (119.4 mm x 58.5 mm)
Weight: 10.7 oz. (305 g)



50 WATT

50-T SERIES*

£136.73

Power Rating:
 50 W max. @ 40°C
 60 W max. @ 25°C
Connectors: BNC, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 4 GHz at 1.25:1 max.
Impedance: 50 ohms, nominal

Ambient Temperature Range: -40°C to +40°C
Operating Position: Any
Coolant: Dry (Convection cooled)
Finish: Black anodized. Silver or Tri-alloy
 plated connector
Nominal Size: (with N-type connector):
 4.7" L x 2.3" Dia., (119.4 mm x 58.5 mm)
Weight: 1.13 lb. (0.52 kg)



TERMALINE
RF COAXIAL TERMINATIONS®
 Dry- and Oil-Dielectric Loads

TAYLOR

100 WATT

100-T SERIES*

£204.08



Power Rating: 100 W max. @ 40°C
 120 W max. @ 25°C
Connectors: BNC, IEC 7/16, N, TNC
Frequency Range and VSWR:
 DC to 1 GHz at 1.10:1 max.
 1 GHz to 2.4 GHz at 1.25:1 max.
Impedance: 50 ohms, nominal
Ambient Temperature Range: -40°C to +40°C
Operating Position: Vertical

Coolant: Dry (Convection cooled)
Finish: Black semigloss paint per federal standard 595. Silver or Tri-alloy plated connector
Nominal Size: (with N-type connector):
 6¹³/₃₂" H × 2¹/₄" W × 6¹³/₁₆" D,
 (162.6 mm × 66.1 mm × 172.8 mm)
Weight: 3.6 lbs. (1.64 kg)

150 WATT

MODEL 8135

£244.89



Power Rating: 150 W continuous
Frequency Range and VSWR:
 DC to 1 GHz at 1.1 max.
 1 to 2.5 GHz at 1.2 max.
 2.5 to 4 GHz at 1.3 max.
Ambient Temperature Range: -40°C to +45°C
Connector: QC type
 (Female N normally supplied)

Load Coolant: 0.1 gal. (380 ml) refined mineral oil
Operating Position: Horizontal only
Finish: Gray powder coat
Nominal Size: (includes connector)
 9¹/₂" L × 6¹¹/₃₂" H × 3¹⁵/₁₆" W
 (241 mm × 161 mm × 100 mm)
Weight: 6 lbs. (2.7 kg)

250 WATT

MODEL 8141

£372.00



Power Rating: 250 W continuous
Frequency Range and VSWR:
 DC to 1 GHz at 1.1 max.
 1 to 1.8 GHz at 1.2 max.
 1.8 to 2.5 GHz at 1.3 max.
Ambient Temperature Range:
 -40°C to +45°C
Connector: QC type
 (Female N normally supplied)

Load Coolant: 0.35 gal. (1.3 liters) silicone oil
Operating Position: Horizontal only
Finish: Gray powder coat
Nominal Size: (includes connectors)
 9⁹/₁₆" L × 8¹/₂" H × 5¹⁵/₁₆" W
 (243 mm × 216 mm × 151 mm)
Weight: 10 lbs. (4.5 kg)

500 WATT

MODEL 8201

£451.00



Power Rating: 500 W continuous
Frequency Range and VSWR:
 DC to 1 GHz at 1.1 max.
 1 to 2.5 GHz at 1.25 max.
Ambient Temperature Range:
 -40°C to +45°C
Connector: QC type
 (Female N normally supplied)

Load Coolant: 0.9 gal. (3.42 liters) refined mineral oil
Operating Position: Horizontal only
Finish: Gray powder coat
Nominal Size: (includes connectors)
 16¹³/₁₆" L × 8¹/₂" H × 5¹⁵/₁₆" W
 (427 mm × 216 mm × 151 mm)
Weight: 21 lbs. (9.5 kg)

Manufactured by Bird

TERMALINE®
RF COAXIAL TERMINATIONS
Oil-Dielectric Loads

TAYLOR



MODEL 8890-300 (left)
MODEL 8891-300 (right)
with BA-300-115

2.5 kW AND 5 kW

8890 SERIES

The 8890 Series is rated at 2.5 kW with convection cooling or 5 kW with the BA-300 forced-air cooling option. Both configurations can be ordered with an optional Overload Thermoswitch (P/N 8890-008) or with two thermoswitches for "standby service" as a reject load for dual transmitter systems.

With dual thermoswitches, one normally open switch closes to activate the blower when power is applied to the load and coolant temperature rises, as when one transmitter fails. The second normally closed switch, is an over-temperature interlock safety switch. For completely assembled and wired dual thermoswitch units, order 8890/91/92/95/97/98-315 for 115 Vac, 50/60 Hz units, or 8890/91/92/95/97/98-320 for 230 Vac, 50/60 Hz units.

2.5 kW

8890-300 SERIES

Power Rating: 2500 W continuous
Frequency Range and VSWR:

DC to 1 GHz at 1.1 max.
 1 to 2 GHz at 1.25 max.
 2 to 2.4 GHz at 1.3 max.

Impedance: 50 ohms nominal
 (8896-300 51.5 ohms nominal)

Ambient Temperature Range: -40°C to +45°C

Load Coolant: 2.9 gal. (11 liters) silicon oil

Operating Position: Horizontal only

Finish: Gray powder coat

Nominal Size: 7" W × 17³/₁₆" H
 (178 mm × 547 mm). See table for length.

MODEL	CONNECTOR	RECESS (IN.)	OVERALL LENGTH	WEIGHT	
8890-300	QC-LC(F)	—	231/8" (587 mm)	57 lbs. (26 kg)	£995.00
8892-300	15/8" EIA Flg.	0.625	231/8" (587 mm)	58 lbs. (26 kg)	£1,046.00
8895-300	15/8" Unflg.	0.438	223/16" (564 mm)	58 lbs. (26 kg)	£1,046.00
8891-300	31/8" EIA Flg.	0.922	251/8" (638 mm)	59 lbs. (27 kg)	£1,155.00
8896-300 (51.5 W)	31/8" Unflg.	0.0	245/32" (626 mm)	59 lbs. (27 kg)	£1,101.00
8897-300	31/8" Unflg.	0.0	245/32" (626 mm)	59 lbs. (27 kg)	£1,101.83
8898-300	31/8" Unflg.	0.688	245/32" (636 mm)	59 lbs. (27 kg)	£1,119.17

NOTE: Overload thermoswitch P/N 8890-008 is optional. Free assembly when ordered as a package.

5 kW

8890-300 SERIES WITH BA-300-115, -230

Power Rating: 5000 W continuous with blower on, 1250 W with blower off

Frequency Range and VSWR:

DC to 1 GHz at 1.1 max.
 1 to 2 GHz at 1.25 max.
 2 to 2.4 GHz at 1.3 max.

Impedance: 50 ohms nominal
 (8896-300 51.5 ohms nominal)

Ambient Temperature Range: -40°C to +45°C

Load Coolant: 2.9 gal. (11 liters) silicone oil

Operating Position: Horizontal only

Finish: Gray powder coat

Nominal Size: 7³/₈" W × 22¹/₁₆" H
 (187 mm × 560 mm). See table for length.

Blower AC Power:

Model BA-300-115: 115 Vac, 50/60 Hz, 0.6 A
 Model BA-300-230: 230 Vac, 50/60 Hz, 0.3 A

MODEL	CONNECTOR	RECESS (IN.)	OVERALL LENGTH	WEIGHT	
8890-300 with BA-300***	QC-LC(F)	—	231/8" (587 mm)	70 lbs. (32 kg)	£1,600.80
8892-300 with BA-300***	15/8" EIA Flg.	0.625	231/8" (587 mm)	72 lbs. (33 kg)	£1,651.00
8895-300 with BA-300***	15/8" Unflg.	0.438	223/16" (564 mm)	72 lbs. (33 kg)	£1,651.00
8891-300 with BA-300***	31/8" EIA Flg.	0.922	251/8" (638 mm)	73 lbs. (33 kg)	£1,762.00
8896-300 with BA-300***	31/8" Unflg.	0.0	245/32" (614 mm)	73 lbs. (33 kg)	£1,706.00
8897-300 with BA-300***	31/8" Unflg.	0.0	245/32" (614 mm)	73 lbs. (33 kg)	£1,706.00
8898-300 with BA-300***	31/8" Unflg.	0.688	245/32" (614 mm)	73 lbs. (33 kg)	£1,725.17

NOTE: Overload thermoswitch P/N 8890-008 is optional. Free assembly when ordered as a package.

*** Specify -115 for 115 Vac Blower or -230 for 230 Vac blower.

Manufactured by Bird

TERMALINE®
RF COAXIAL TERMINATIONS
Oil-Dielectric, Direct Water-Cooled Loads

TAYLOR

5 kW OIL DIELECTRIC

8921 SERIES

Power Rating: 5000 W continuous
Frequency Range and VSWR:
 DC to 1 GHz at 1.1 max.
Ambient Temperature Range: -40°C to +45°C
Load Coolant: 6²/₃ gals. (25.3 liters)
 silicone oil
Operating Position: Horizontal only
Finish: Gray powder coat
Nominal Size: 9¹/₂" W × 25¹³/₁₆" H
 (241 mm × 656 mm). See table for length.

MODEL	CONNECTOR	OVERALL LENGTH	WEIGHT
8921	QC-LC(F)	3027/32" (783 mm)	119 lbs. (54 kg)
8922	15/8" EIA flg.	3027/32" (783 mm)	121 lbs. (55 kg)
8926	31/8" EIA flg.	323/4" (832 mm)	126.5 lbs. (57 kg)
8927	31/8" Unflg.	317/8" (809 mm)	126 lbs. (57 kg)

£2,238.³³

£2,267.⁸⁷

£2,334.¹⁷

£2,320.²⁷



NOTE: An 8890-008 over-temperature interlock safety switch is included.

10 kW OIL DIELECTRIC

8931-115, -230 SERIES

Power Rating: 10 kW continuous
Frequency Range and VSWR:
 DC to 400 MHz at 1.15 max.
 400 MHz to 1 GHz at 1.20 max.
Ambient Temperature Range: -40°C to +45°C
Load Coolant: 6²/₃ gals. (25.3 liters)
 silicone oil
Operating Position: Horizontal only
Finish: Gray powder coat
Nominal Size: 9¹/₂" W × 33⁵/₁₆" H
 (241 mm × 821 mm). See table for length.

MODEL	CONNECTOR	OVERALL LENGTH	WEIGHT
8931-***	QC-LC(F)	307/32" (768 mm)	135 lbs. (61 kg)
8932-***	15/8" EIA flg.	307/32" (768 mm)	137 lbs. (62 kg)
8936-***	31/8" EIA flg.	321/8" (816 mm)	142.5 lbs. (64.8 kg)
8937-***	31/8" Unflg.	311/4" (793 mm)	142 lbs. (64.5 kg)

£3,404.⁰⁰

£3,404.⁰⁰

£3,435.⁰⁰

£3,449.⁰⁰



NOTE: Both an 8892-333 blower control switch and an 8890-017 over-temperature interlock safety switch are included.

*** AC power 115 or 230 Vac, 50/60 Hz (add suffix -115 or -230 to Model number)

1 kW DIRECT WATER COOLED

8710 SERIES

Power Rating: 1000 W continuous
Frequency Range and VSWR:
 DC to 1 GHz at 1.10 max.
 1 to 3 GHz at 1.3 max.
 3 to 3.5 GHz at 1.35 max.
Water Temperature Range: +8°C to +80°C
Water Flow Rate: 1 quart/minute @ 8°C to
 3qpm @ 80°C (0.95 liters/minute @ 8°C
 to 2.84 lpm @ 80°C)
Connectors: Waterlines 1/8" FPT
 Model 8710F (N Female)
 Model 8710M (N Male)

Load Coolant: Potable water
Operating Position: Any
Finish: Silver plated
Nominal Size: (excl. 18" waterlines)
 3²/₃₂" × 1¹/₁₆" Dia., (93 mm × 17 mm)
Weight: Models 8710, 8711 5 oz. (142 g),
 Model 8713 14 oz. (397 g)

£433.³⁹

£433.³⁹

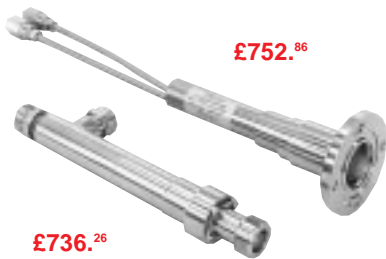
Manufactured by Bird



MODEL 8710 (RIGHT)

TERMALINE®
RF COAXIAL TERMINATIONS
Direct Water-Cooled Loads

TAYLOR



£752.⁸⁶

£736.²⁶

MODEL 8720 (top)
MODEL 8726 (bottom)

5 kW DIRECT WATER COOLED

MODELS 8720, 8726

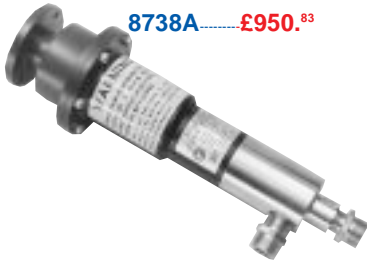
Power Rating: 5 kW continuous
Frequency Range and VSWR:
 Model 8720: DC to 500 MHz 1.1 max.,
 500 to 900 MHz 1.15 max.,
 900 to 2000 MHz 1.25 max.
 Model 8726: DC to 500 MHz 1.1 max.,
 500 to 2000 MHz 1.25 max.
Water Temperature Range: +5°C to +80°C
Water Flow Rate: 1 gal./minute @ 5°C to
 4gpm @ 80°C (3.8 liters/minute @ 5°C to
 15.21 lpm @ 80°C)

Connectors: Waterlines 1/2" FPT (8720) or
 3/4" hose (8726)
 Model 8720 1 5/8" EIA Flg.
 Model 8726 QC type
 (Female LC normally supplied)
Load Coolant: Potable water
Operating Position: Any
Finish: Bright nickel plated
Nominal Size: (excl. 8" waterlines)
 Model 8720, 8 1/32" x 1 5/8" Dia.,
 (204 mm x 41 mm). Input Flg. 3 1/2" Dia.
 Model 8726, 8 7/8" x 1 5/8" Dia.,
 (225 x 41 mm)
Weight: Model 8720: 2 lbs. (900 g)
 Model 8726: 2 1/2 lbs. (1.1 kg)

8730A£904.⁵⁵

8731£950.⁸³

8738A£950.⁸³



10 kW ECONOLOAD®

MODELS 8730A, 8731, 8738A

Power Rating: 10 kW continuous
Frequency Range and VSWR:
 Model 8731, 1.1 max. 1 kHz to 1 GHz
 (DC for continuity checks)
 Models 8730A and 8738A, 1.1 max.
 DC to 1 GHz
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 4 gals./minute @ 5°C to
 6 gpm @ 60°C (15.2 liters/minute @ 5°C
 to 22.8 lpm @ 60°C)
Connectors: Waterlines 1/2" FPT or 3/4" hose
 Model 8730A, 1 5/8" EIA Flg.

Model 8731, 3 1/8" EIA Flg.
 Model 8738A, 3 1/8" Unflg. (Flush)
Load Coolant: Potable water
Operating Position: Any
Finish: Black powder coat
Nominal Size: 14 3/4" x 2 3/4" Dia.,
 (375 mm x 70 mm). Input Flg.
 Model 8730, 3 1/2" Dia., (89 mm),
 Model 8731, 5 3/16" Dia., (132 mm)
Weight: Model 8730 7 lbs. 14 oz. (3.6 kg),
 Model 8731 6 lbs. 10 oz. (3 kg),
 8738 6 lbs. (2.8 kg)

8745£1,324.³³

8746£1,324.³³



20 kW ECONOLOAD®

MODELS 8745, 8746

Power Rating: 20 kW continuous
Frequency Range and VSWR: 1.1 max. 1 kHz
 to 900 MHz (DC for continuity checks)
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 6 gal./minute @ 5°C to
 8 gpm @ 60°C (22.8 liters/minute @ 5°C
 to 30.4 lpm @ 60°C)
Connector: Waterlines 1/2" FPT or 3/4" hose
 Model 8745 3 1/8" EIA Flg.
 Model 8746 3 1/8" Unflg. (Flush)

Load Coolant: Potable water
Operating Position: Any
Finish: Black powder coat
Nominal Size: 19 1/2" x 3 1/2" Dia.,
 (495 mm x 90 mm),
 Input Flg. 5 3/16" Dia. (132 mm)
Weight: Model 8745 15 lbs. 13 oz. (7.2 kg),
 Model 8746 15 lbs. 5 oz. (7.0 kg)

8755£1,945.⁰⁰

8756£1,945.⁰⁰



30 kW ECONOLOAD®

MODELS 8755, 8756

Power Rating: 30 kW continuous
Frequency Range and VSWR: 1.1 max. 1 kHz
 to 900 MHz (DC for continuity checks)
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 7 gal./minute @ 5°C to 9
 gal./minute @ 60°C (26.6 liters/minute @
 5°C to 34.2 lpm @ 60°C)
Connectors: Waterlines 1/2" FPT or 3/4" hose
 Model 8755 3 1/8" EIA Flg.
 Model 8756 3 1/8" Unflg. (Flush)

Load Coolant: Potable water
Operating Position: Any
Finish: Black powder coat
Nominal Size: 19 1/2" x 3 1/2" Dia.,
 (495 mm x 90 mm).
 Input Flg. 5 3/16" Dia. (132 mm)
Weight: Model 8755 15 lbs. 13 oz. (7.2 kg),
 Model 8756 15 lbs. 5 oz. (7.0 kg)

Manufactured by Bird

TERMALINE® RF COAXIAL TERMINATIONS

Direct Water-Cooled Loads, MODULOAD® Systems

TAYLOR

40 kW ECONOLOAD®

MODELS 8765, 8766

Power Rating: 40 kW continuous
Frequency Range and VSWR: 1.1 max. 1 kHz to 900 MHz (DC for continuity checks)
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 8 gals./minute @ 5°C to 10 gpm @ 60°C (30.4 liters/minute @ 5°C to 3.8 lpm @ 60°C)
Connectors: Waterlines 1/2" FPT or 3/4" hose
 Model 8765 3 1/8" EIA Flg.
 Model 8766 3 1/8" Unflg. (Flush)

Load Coolant: Potable water
Operating Position: Any
Finish: Black powder coat
Nominal Size: 19 1/2" x 3 1/2" Dia., (495 mm x 90 mm),
 Input Flg. 5 13/16" Dia., (132 mm)
Weight: Model 8765 15 lbs. 13 oz. (7.2 kg),
 Model 8766 15 lbs. 5 oz. (7.0 kg)

8765£2,111.67

8766£2,111.67



50 kW ECONOLOAD®

MODELS 8775, 8776

Power Rating: 50 kW continuous
Frequency Range and VSWR: 1.1 max. 1 kHz to 900 MHz (DC for continuity checks)
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 9 gals./minute @ 5°C to 11 gpm @ 60°C (34.2 liters/minute @ 5°C to 41.8 lpm @ 60°C)
Connectors: Waterlines 1/2" FPT or 3/4" hose
 Model 8775 3 1/8" EIA Flg.
 Model 8776 3 1/8" Unflg. (Flush)

Load Coolant: Potable water
Operating Position: Any
Finish: Black powder coat
Nominal Size: 19 1/2" x 3 1/2" Dia., (495 mm x 90 mm),
 Input Flg. 5 3/16" Dia., (132 mm)
Weight: Model 8775 15 lbs. 13 oz. (7.2 kg),
 Model 8776 15 lbs. 5 oz. (7.0 kg)

8775£2,361.00

8776£2,361.00



80 kW ECONOLOAD®

MODEL 8792

Power Rating: 80 kW continuous
Frequency Range and VSWR: 1.15 max. 1 kHz to 800 MHz (DC for continuity checks)
Water Temperature Range: +5°C to +60°C
Water Flow Rate: 9 gals./minute @ 5°C to 12 gpm @ 60°C (34.2 liters/minute @ 5°C to 45.6 lpm @ 60°C)
Connector: 6 1/8" EIA Flg.
Load Coolant: Potable water

Operating Position: Any
Finish: Black powder coat
Nominal Size: 34" x 5" Dia., (864 mm x 127 mm),
 Input Flg. 8 1/8" Dia., (206 mm) add approximately 1 1/4" (32 mm) to length for rear water fitting
Weight: 30 lbs. 10 oz. (14 kg)

£3,654.00



10 kW MODULOAD®

MODELS 8631, 8635, 8638

Power Rating: 10 kW continuous
Frequency Range and VSWR: 1.1 max. 1 kHz to 1000 MHz (DC for continuity checks)
Ambient Temperature Range: (per power level and coolant mix)
 ≤10 kW: (35% Ethylene Glycol/65% Water) +5°C to +45°C
 ≤10 kW: (35% Ethylene Glycol/65% Water) -20°C to +35°C
Connector: 8635: 1 5/8" EIA Flg.
 8631: 3 1/8" EIA Flg. 8638: 3 1/8" Unflg.
Load Coolant: 10 pts. (4.75 liters) 100% water or 65% water/35% industrial Ethylene Glycol. With forced-air cooling
Operation Position: Horizontal only
Finish: Gray powder coat

Nominal Size: (excluding connectors)
 22 1/8" L x 15 15/16" W x 15 13/16" D,
 (562 mm x 405 mm x 402 mm)

Weight: 110 lbs. (50 kg)
AC Power: 115 V models: 9 1/2 A nominal @ 115V ±10% 60Hz
 230 V models: 4 3/4 A nominal @ 230V ±10% 50Hz
Optional Dolly: P/N 6771-011

Power	Basic P.N.	Add Suffix
115 V 50 Hz		-115-5
115 V 60 Hz	8631,8635,	-115
230 V 50 Hz	or 8638	-230
230 V 60 Hz		-230-6

POA



Manufactured by Bird

In the table below, $Z_o = 50$ ohms, PEP is peak envelope power, and PEV is peak envelope voltage. The PEV of the carrier (or suppressed carrier) C was arbitrarily chosen at 100 volts in all examples, $PEV_{RMS} = \frac{PEV}{1.414}$. To obtain a detailed essay on this subject, write for "WATT'S NEW FROM BIRD" vol. 4, no. 2. For TV black level measurement (table H), refer to vol. 5, no. 3.

The graph at right shows correlation of peak-envelope-power (PEP), average heating power (P_{AVE}) and % modulation of AM signals for Tables B, C, and D below.

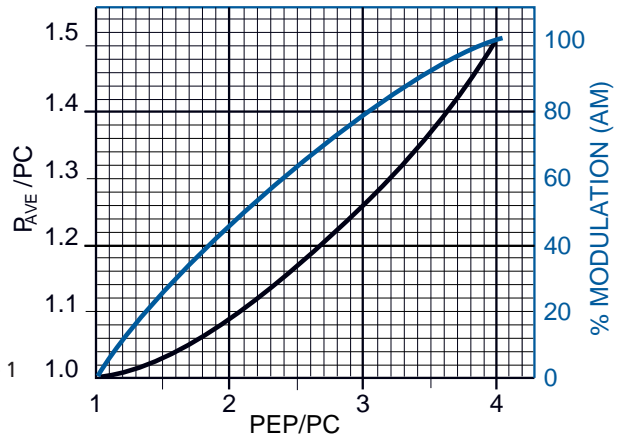


Figure 1

Table	Signal	Carrier Voltage (V)	Carrier Power (W)	Modulated Power (W)	Power (W)			% Modulation	Total Power (W)
					Carrier	Modulated	Total		
Table A	Multiple Carriers	$\frac{400}{\sqrt{2}}$ V	1600W	400W	—	1600W	—	—	400W
Table B	CW	$\frac{100}{\sqrt{2}}$ V	100W	100W	100W	100W	0%	100W	100W
Table C	AM 100% Mod.	$\frac{200}{\sqrt{2}}$ V	400W	150W	100W	400W	100%	100W	150W
Table D	AM 75% Mod.	$\frac{173}{\sqrt{2}}$ V	300W	127W	100W	300W	73%	100W	127W
Table E	SSB 1 Tone	$\frac{100}{\sqrt{2}}$ V	100W	100W	100W	100W	0%	100W	100W
Table F	SSB 2 Tones	$\frac{100}{\sqrt{2}}$ V	100W	50W	25W	100W	100%	40.5W	50W
Table G	SSB Voice	$\frac{100}{\sqrt{2}}$ V	100W	—	—	100W	—	—	—
Table H	TV Black Level	$\frac{100}{\sqrt{2}}$ V	100W	60.1W	Models 4314B, 4391A only			59.6W	60.1W
Table 1	Pulse	$\frac{100}{\sqrt{2}}$ V	100W	10W	—	100W	100%	—	10W