



# Price Schedule

JUNE 20, 1988



## Electronic Corporation

30303 Aurora Road, Cleveland, (Solon), Ohio 44139  
216-248-1200 • TLX: 706898 • Cable: BIRDELEC  
FAX: 216-248-5426

### THRULINE® RF Directional Wattmeters

for use with 50 Ω cables

MODEL	CONNECTORS	PAGE	PRICE
43 CW/Portable	50 Ω cable	4	\$184
Elements (Table 1)	25-1000MHz	5, 31	52
Elements (Table 1)	50H thru 1000H	5, 31	64
Elements (Table 1)	2500H, 5000H	5, 31	92
Elements (Table 2)	Low power	5, 31	69
Elements (Table 3)	950-2300MHz	5, 31	108
Elements (Table 4)	0.45-2.5MHz	5, 31	108
Elements (Table 5)	Peak only	19, 31	113
Elements (Table 6)	Milliwatts	5, 31	98
CC-1 Carrying Case			
CC-3 Carrying Case		5, 36	33
EC-1 Element Case		36	24
4030 Field Strength Element		12	105
4041 Field Strength Meter		12	160
4110-182 RF Test Set		27	510
4300-064 Mobile Service Test Set		27	556
Includes: 43, 4275-100, 8164, 4240-050(2), 4400-012 in 4300-061 Carrying Case			
4301 (Ruggedized Model 43)	50 Ω cable	—	438
4304A Wide Band		6	395
4305 Hi Power	50 Ω cable	11	510
Elements (4305)(Table 8)	0.45-2.5MHz	11, 32	113
Elements (4305)(Table 8)	2-1800MHz	11, 32	87
4308 Cellular			395
4314 pk/CW(AC/DC)	50 Ω cable	10	705
Use 43 Elements		31	
Additional Elements (4314) (Table 5)		31	113

### RF Power Analyst® Series (less elements)

MODEL	CONNECTORS	PAGE	PRICE
4380A-232 RS-232 Interface Unit*		22	\$1070
4380-250 Null Modem Kit		21	47
4380A-488 IEEE-488 Bus Interface Unit		21	1070
4380-600 Panel mtg. kit for above		21, 22	80
4381 Portable	50 Ω cable	18	695
4381-832 Bus-compatible			
4381	50 Ω cable	18	815
4382 Portable	1%, 3% or 6%	22	640
4382-832 Bus-compatible			
4382	1%, 3% or 6%	22	755
4383 Portable	50 Ω cable	18	640
4383-832 Bus-compatible			
4383	50 Ω cable	18	755
4384 Portable	1%, 3% or 6%	22	670
4384-832 Bus-compatible			
4384	1%, 3% or 6%	22	790
4300-080 Carrying Case for above		18, 36	105
4391 (AC/DC) Portable	50 Ω cable	20	855
4391-832 Bus-compatible			
4391	50 Ω cable	20	973
4300-085 Carrying Case (4391)		36	103

### RF Power Analyst® Panel Wattmeters

MODEL	CONNECTORS	PAGE	PRICE
4385 Panel mounted 4381	50 Ω cable	18	\$895
4385-832 Bus-compatible			
4385	50 Ω cable	18	1015
4386 Panel mounted 4382	1%, 3% or 6%	22	770
4386-832 Bus-compatible			
4386	1%, 3% or 6%	22	890
4387 Panel mounted 4383	50 Ω cable	18	775
4387-832 Bus-compatible			
4387	50 Ω cable	18	890
4388 Panel mounted 4384	1%, 3% or 6%	22	775
4388-832 Bus-compatible			
4388	1%, 3% or 6%	22	890
3170-058-3 25' DC cable, two rqd.		36	30
3171-010 25' DC cable for 6%, two rqd.		36	53
Use 43 Elements for 4381, 4383, 4385,			
4387, 4391		19, 31	
Elements for 4382, 4384, 4386, 4388		23, 33	80+
DC Feed-in Element P/N 4381-050		—	80
* May require 4380-250 Null Modem Kit			
⊙ Charger included. Specify 115V or 230V		36	
⊙ Less line section and DC cables		34, 36	
+ H-series ELEMENTS (2-30MHz) for all high-power Wattmeters		23, 33	92

### THRULINE® WATTMETERS (CONT'D)

MODEL	CONNECTORS	PAGE	PRICE
4400-012 VSWR Chart			\$ 5
4410A CW w/7-range Elements,			
DC portable	50 Ω cable	7	510
4410-P AC/DC Panel	50 Ω cable	7	800
4411 AC/DC Portable	50 Ω cable	7	670
4412 AC/DC NiCd Port	50 Ω cable	7	820
4410-1 0.2-0.535MHz, 10-10000W (Table 12)		8, 32	180
4410-2 0.45-2.5MHz, 10-10000W (Table 12)		8, 32	180
4410-3 2-30MHz, 1-1000W (Table 11)		8, 32	155
4410-4 2-30MHz, 10-10000W (Table 12)		8, 32	155
4410-5 25-80MHz, 1-1000W (Table 11)		8, 32	130
4410-6 50-200MHz, 1-1000W (Table 11)		8, 32	130
4410-7 144-520MHz, 1-1000W (Table 11)		8, 32	130
4410-8 200-1000MHz, 1-1000W (Table 11)		8, 32	130
4410-10 25-80MHz, 100mW-100W (Table 10)		8, 32	130
4410-11 50-125MHz, 100mW-100W (Table 10)		8, 32	130
4410-12 100-250MHz, 100mW-100W (Table 10)		8, 32	130
4410-13 200-500MHz, 100mW-100W (Table 10)		8, 32	130
4410-14 400-1000MHz, 100mW-100W (Table 10)		8, 32	130
4410-20 30-50MHz, 10mW-10W (Table 9)		8, 32	130
4410-21 50-88MHz, 10mW-10W (Table 9)		8, 32	130
4410-22 100-152MHz, 10mW-10W (Table 9)		8, 32	130
4410-23 150-250MHz, 10mW-10W (Table 9)		8, 32	130
4410-24 225-400MHz, 10mW-10W (Table 9)		8, 32	130
4410-25 400-800MHz, 10mW-10W (Table 9)		8, 32	130
4410-26 800-900MHz, 10mW-10W (Table 9)		8, 32	130
4410-27 88-108MHz, 10mW-10W (Table 9)		8, 32	130
4410-070 Calibration Element		—	175
4410-025 Test Set		9	Inq
4410-030 Test Set		9	Inq
4430 43 w/RF Tap - 512MHz	50 Ω cable	10	285
4431 43 w/variable RF Tap	50 Ω cable	10	325
Use 43 Elements		5	
4450 Very Low Freq. Wattmeter		—	465

for use with rigid coax lines:

MODEL	CONNECTORS	PAGE	PRICE
460	50 Ω 3/8" EIA FI	15	\$650
Elements (460) Table 3/A		15, 33	80+
480	51.5 Ω 3/8" Unfl	—	445
Elements (480) Table 3/A		15, 33	80+
4600-037	50 Ω 3/8" EIA FI	15	650
Elements (4600-037) Table 3/A		15, 33	80+
4610-200	50 Ω 3/8" EIA FI	15	760
Elements (4610-200) Table 3/A		15, 33	80+
4610-300	50 Ω 3/8" EIA FI	15	760
Elements (4610-300) Table 3/A		15, 33	80+
4641	50 Ω 4/16" EIA FI	950	
Elements (4641) Table 4/A		80+	
4641-037	50 Ω 4/16" EIA FI	950	
Elements (4641-037) Table 4/A		80+	
4641-080	50 Ω 4/16" EIA FI	950	
Elements (4641-080) Table 4/A		80+	
4642-200	50 Ω 4/16" EIA FI	1090	
Elements (4642-200) Table 4/A		80+	
4642-300	50 Ω 4/16" EIA FI	1090	
Elements (4641-037) Table 4/A		80+	
4712	50 Ω 1 1/8" EIA FI	15	570
Elements (4712) Table 1/A		15, 33	80+

### THRULINE® WATTMETERS (CONT'D)

MODEL	CONNECTORS	PAGE	PRICE
4712-037	50 Ω 1 1/8" EIA FI	15	\$500
Elements (4712-037) Table 1/A		15, 33	80+
4715-200	50 Ω 1 1/8" EIA FI	15	610
Elements (4715-200) Table 1/A		15, 33	80+
4715-300	50 Ω 1 1/8" FI	15	610
Elements (4715-300) Table 1/A		15, 33	80+
4720	50 Ω 1 1/8" Unfl	15	435
Elements (4720) Table 1/A		15, 33	80+
4723-200	50 Ω 1 1/8" Unfl	15	580
Elements (4723-200) Table 1/A		15, 33	80+
4802-200	50 Ω 3/8" Unfl	15	625
Elements (4802-200) Table 3/A		15, 33	80+
4802-300	50 Ω 3/8" Unfl	15	625
Elements (4802-300) Table 3/A		15, 33	80+
4805	50 Ω 3/8" Unfl	15	490
Elements (4805) Table 3/A		15, 33	80+
4805-037	50 Ω 3/8" Unfl	15	490
Elements (4805-037) Table 3/A		15, 33	80+
4843	50 Ω 4/16" Unfl		640
Elements (4843) Table 4/A			80+
4843-037	50 Ω 4/16" Unfl		640
Elements (4843-037) Table 4/A			80+
4843-080	50 Ω 4/16" Unfl		640
Elements (4843-080) Table 4/A			80+
4844-200	50 Ω 4/16" Unfl		790
Elements (4844-200) Table 4/A			80+
4844-300	50 Ω 4/16" Unfl		790
Elements (4844-300) Table 4/A			80+
4902	50 Ω 6/8" EIA FI	15	1100
Elements (4902) Table 6/A		15, 33	80+
4902-037	50 Ω 6/8" EIA FI	15	1100
Elements (4902-037) Table 6/A		15, 33	80+
4905-200	50 Ω 6/8" EIA FI	15	1270
Elements (4905-200) Table 6/A		15, 33	80+
4905-300	50 Ω 6/8" EIA FI	15	1270
Elements (4905-300) Table 6/A		15, 33	80+
4907	50 Ω 6/8" Unfl	15	750
Elements (4907) Table 6/A		15, 33	80+
4909-200	50 Ω 6/8" Unfl	15	920
Elements (4909-200) Table 6/A		15, 33	80+
4902-080	50 Ω 6/8" EIA FI	15	1100
Elements (4902-080) Table 6/A		15, 33	80+
4907-080	50 Ω 6/8" Unfl	15	750
Elements (4907-080) Table 6/A		15, 33	80+

### Directional Coupler Elements Couplers & Samplers

MODEL	PAGE	PRICE
Couplers for cable or 7/8 lines (Table 14)	32	\$ 81
Couplers for 1%, 3% or 6% lines (Tables 15, 16, 17)	32	113
4266 HF Coupler, 1500 watts	—	310
4273 Variable RF Sampler	12	92*
4273-020, 4275-020 e/w N(M), N(F)	12	112
4273-025, 4275-025 e/w N(F), N(F)	12	107
4273-030, 4275-030 e/w UHF(M), UHF(F)	12	121
4273-035, 4275-035 e/w UHF(F), UHF(F)	12	107
4273-100 for installation on Bird equipment	12	103
4274-025 Wide Range RF Sampler	4, 32	65
4274-050 Wide Range RF Sampler Variable	62,	75
4275 Variable RF Sampler	12	92*
4275-100 for installation on Bird equipment	12	103
4278-111-1 125-250MHz 10dB	—	385
4278-111-2 125-250MHz 20dB	—	385
4278-111-3 125-250MHz 30dB	—	385
4278-211-1 250-500MHz 10dB	—	305
4278-211-2 250-500MHz 20dB	—	305
4278-211-3 250-500MHz 30dB	—	305
4278-311-1 500-1000MHz 10dB	—	305
4278-311-2 500-1000MHz 20dB	—	305
4278-311-3 500-1000MHz 30dB	—	305
4278-411-1 1000-2000MHz 10dB	—	305
4278-411-2 1000-2000MHz 20dB	—	305
4278-411-3 1000-2000MHz 30dB	—	305
4278-XXX-X Calibration Data Per Unit	—	42

\*QC connectors not included



Page Numbers refer to General Catalog GC-86/GC-86A

## Laboratory Standard RF Wattmeters

MODEL	PAGE	PRICE			
4021 RF Power Sensor 1.8-32MHz	17	\$750			
4022 RF Power Sensor 25-1000MHz	17	750			
MODEL	DISPLAY	Batteries	Interface	PAGE	PRICE
4420 Analog	No	No	No	17	\$1395
4421-101 Digital	No	No	No	17	1775+
4421-102 Digital	NiCd	No	No	17	1840+
4421-103 Digital	Alkaline	No	No	17	1800+
4421-104 Digital	No	RS-232*	RS-232*	17	2085+
4421-105 Digital	NiCd	RS-232*	RS-232*	17	2150+
4421-106 Digital	Alkaline	RS-232*	RS-232*	17	2110+
4421-107 Digital	No	IEEE-488	IEEE-488	17	2085+
4421-108 Digital	NiCd	IEEE-488	IEEE-488	17	2150+
4421-109 Digital	Alkaline	IEEE-488	IEEE-488	17	2110+

For field installation (4421- or 4421P only):  
 4421-232 RS-232 Interface Card\* 17 310  
 4421-488 IEEE-488 Interface Card 17 310

+All Digital Display models available in panel-mounted versions.  
 Add "P" suffix to "4421" (e.g. 4421P-101) +300  
 4029 Calibrator for Sensors — 1750  
 \*May require 4380-250 Null Modem Kit — 47

## WATTCHER® RF Power Monitor/Alarm

MODEL	PAGE	PRICE
3126 for rigid lines (15/30/60-scale meters)ⓀⓁ	25	\$1030
3127 for rigid lines (5/10/25-scale meters)ⓀⓁ	25	950
3128 for cables (25/50/100-scale meters)ⓀⓁ	25	1000
3170 High Speed RF Monitoring System (25/50/100)Ⓚ	24	1130
3171 High Speed RF Mon. Sys. (rigid lines) (5/10/25)ⓀⓁ	24	1080
3171-020 High Speed RF Mon. Sys. (rigid lines) (15/30/60)ⓀⓁ	24	1080
Elements for 3171, 3171-020	33	80+
+ H-Series ELEMENTS for 3171	33	92
Ⓚ less line section	34	
Ⓛ less elements	31, 33	
25' DC Cables included with WATTCHER (except 3170), other lengths optional. See CABLE ASSEMBLIES	36	—

## Digital Hi-Power RF Calorimeter

MODEL	PAGE	PRICE
6080-115 (less TERMALINE® load)	29	\$3785
6080-230 (less TERMALINE® load)	29	3925
6081-115 Panel (less TERMALINE® load)	29	4000
6081-230 Panel (less TERMALINE® load)	29	4035

## MODULOAD® RF Calorimeter Load Systems

MODEL	CONNECTOR	POWER	PAGE	PRICE
8631-601	3/4 EIA FI	10kW	30	\$8035
8631-602	3/4 EIA FI	10kW	30	8060
8635-601	1/4 EIA FI	10kW	30	8035
8635-602	1/4 EIA FI	10kW	30	8060
8638-601	3/4 Unfl	10kW	30	8035
8638-602	3/4 Unfl	10kW	30	8060
8645-601	3/4 EIA FI	25kW	30	10500
8645-602	3/4 EIA FI	25kW	30	10530
8646-601	3/4 Unfl	25kW	30	10500
8646-602	3/4 Unfl	25kW	30	10530
8655-601	3/4 EIA FI	50kW	30	12875
8655-602	3/4 EIA FI	50kW	30	12900
8656-601	3/4 Unfl	50kW	30	12875
8656-602	3/4 Unfl	50kW	30	12900

Above models' coolant is 100% water. For Glycol use, replace "0" in model number with "3" (e.g. 8635-601 becomes 8635-631). Same price.

LINE VOLTAGE SUFFIX: -601 115V 60Hz  
 -602 230V 50Hz

## TERMALINE® RF Absorption Wattmeters

MODEL	POWER	PAGE	PRICE
6104 4-range	2/6/20/60W	39	\$ 515
6151 Select range element*	100W	39	435
6154 4-range to 1000MHz	5/15/50/150W	40	535
6156 4-range to 512MHz	5/15/50/150W	40	515
6732A 3-range	10/50/250W	40	670
6734A 3-range	25/100/500W	40	780

## TERMALINE® RF WATTMETERS (CONT.)

MODEL	POWER	PAGE	PRICE
6734A-030 3-range	25/100/500W	40	\$865
6734-034 Low Freq. Line Section with Meter	41	515	
6735-300 3-range	120/600/1200W	41	1235
6736 3-range	50/250/1000W	40	1190
6736-030 3-range	50/250/1000W	40	1270
6737 3-range	100/500/2500W	41	1190
6737-030 3-range	100/500/2500W	41	1270
8863-400 3/4 Unfl	1500W	—	1330
8864-400 3/4 FI	1500W	—	1350
8891-400 3/4 FI	2500W	—	1515
8897-400 3/4 Unfl	2500W	—	1460
8891-415 3/4 FI 115Vac	5000W	—	2175
8891-420 3/4 FI 230Vac	5000W	—	2175
8891-420A 3/4 FI 230Vac	3/5kW	—	2175
8897-415 3/4 FI 115Vac	5000W	—	2120
8897-420 3/4 FI 230Vac	5000W	—	2120
8926-400 3/4 FI	5000W	—	2435
8927-400 3/4 Unfl	5000W	—	2420
8936-415 3/4 FI 115Vac	10kW	—	3420
8936-420 3/4 FI 230Vac	10kW	—	3455
8937-415 3/4 Unfl 115Vac	10kW	—	3420
8937-420 3/4 Unfl 230Vac	10kW	—	3450

Table 19 Elements for above W/M

NOTE 1 - Units with blowers are 50/60Hz and are listed with AC voltage. These units include thermostat for automatic blower control.

NOTE 2 - All units include over-temperature interlock switch

NOTE 3 - Elements not included. Order separately from Table 19. \*not included

## TERMALINE® RF Coaxial Load Resistors

MODEL	CONNECTOR	POWER	PAGE	PRICE
80BNC/F, 80BNC/M		5W	44	\$ 70
80CF, 80CM		5W	44	70
80F, 80M		5W	44	57
80SC/F, 80SC/M		5W	44	70
80TNC/F, 80TNC/M		5W	44	70
8010, 8011 N(F), (M)		2W	44	57
8015, 8016 TNC(M), (F)		2W	44	57
8052, 8053 N(F), (M)		10W	44	70
8071-1 SMA(F) Heat sink reqd.		100W	45	195
8072-1 SQC-N(F) Heat sink reqd.		300W	46	270
8080 QC-N(M)		25W	44	80
8085 QC-N(M)		50W	45	110
8135 QC-N(F)		150W	46	175
8135A QC-N(F)		150W	60	215
8141 QC-N(F)		250W	46	265
8164 QC-N(F)		100W	45	205
8166 QC-N(F)		150W	45	240
8173 QC-N(F)		300W	46	405
8201 QC-N(F)		500W	46	325
8230 air/water cooled QC LC(F)		0.2/2 1/2 kW	47	490
8251 QC-LC(F)		1kW	47	590
8360 Series				
N(M), BNC(M), TNC(M)		2W	44	40
8361 Series N(M), (F), BNC(M), (F); TNC(M), (F)		10W	44	55
8362 Series N(M), (F); BNC(M), (F); TNC(M), (F)		25W	45	82
8363 Series N(M), (F); BNC(M), (F); TNC(M), (F)		50W	45	115
8431 SQC-N(F)		600/500W	46	595
8401 QC-N(F)		600W	47	360

## MODULOAD® Self-Cooled Load Systems

MODEL	CONNECTOR	POWER	PAGE	PRICE
8631-115 3/4 EIA FI		10kW	50	\$4325
8631-230 3/4 EIA FI		10kW	50	4340
8635-115 3/4 EIA FI		10kW	50	4325
8635-230 1/4 EIA FI		10kW	50	4350
8638-115 3/4 Unfl		10kW	50	4400
8638-230 3/4 Unfl		10kW	50	4340
8645-115 3/4 EIA FI		25kW	50	5730
8645-230 3/4 EIA FI		25kW	50	5765
8646-115 3/4 Unfl		25kW	50	5730
8646-230 3/4 Unfl		25kW	50	5765
8655-115 3/4 EIA FI		50kW	51	8000
8655-230 3/4 EIA FI		50kW	51	8035
8656-115 3/4 Unfl		50kW	51	8000
8656-230 3/4 Unfl		50kW	51	8035
8690-060 6/4 EIA FI 230V 60HzⓀ		80kW	51	18530
8690-050 6/4 EIA FI 230V 50HzⓀ		80kW	51	18530
8691-060 6/4 Unfl 230V 60HzⓀ		80kW	51	18530
8691-050 6/4 Unfl 230V 50HzⓀ		80kW	51	18530

LINE VOLTAGE SUFFIX: -115: 115V 60Hz only  
 -230: 230V 50Hz only

Ⓚ80kW units are three phase only

## Water Cooled, Air Dielectric

MODEL	CONNECTOR	POWER	PAGE	PRICE
8710 N/M or F		1kW	49	\$ 365
8711 C/M or F		1kW	49	410
8713 1/4 EIA FI/50 Ω		1kW	49	435
8720 1/4 EIA FI/50 Ω		5kW	49	680
8726 QC-LC(F)		5kW	49	650
8730 1/4 EIA FI Econoload®		10kW	49	815
8731 3/4 EIA FI Econoload		10kW	49	840
8738 3/4 Unfl Econoload		10kW	49	840
8745 3/4 EIA FI Econoload		20kW	49	1190
8746 3/4 Unfl Econoload		20kW	49	1190
8755 3/4 EIA FI Econoload		30kW	49	1650
8756 3/4 Unfl Econoload		30kW	49	1650
8765 3/4 EIA FI Econoload		40kW	49	1865
8766 3/4 Unfl Econoload		40kW	49	1865
8775 3/4 EIA FI Econoload		50kW	50	2110
8776 3/4 Unfl Econoload		50kW	50	2110
8790 6/4 EIA FI Econoload		80kW	50	3245
8791 6/4 Unfl Econoload		80kW	50	3245

For Econoload® Resistors mounted on a Dolly with Water Flow Switch, Control Box and Bracket (for optional Wattmeter), add -677 to Model No. plus -1 (115V 60Hz) or -2 (230V 50Hz) to specify voltage i.e., 8755-677-1  
 Add on price 52 814

## Control Box Assembly

MODEL	POWER	PAGE	PRICE
8750-115 For Econoloads, 115 Volt, 60 Hz	52		\$285
8750-230 For Econoloads, 230 Volt, 50 Hz	52		285

NOTE: These items previously listed as 8750-100

## Replacement Resistors — Econoloads, etc.

8570-032 (Forced Air Loads)	15kW	52	\$ 75
8572-021 (Forced Air Loads)	25kW	52	75
8731-021-1	10kW	52	290
8755-027-3	30kW	52	360
8755-027-4	40kW	52	420
8755-027-5	50kW	52	430
8755-029-2	20kW	52	220
8790-035-1 Two Req'd.	80kW	52	515

## Water Flow Switch — Econoloads

5-898-2	20kW	52	\$135
5-898-3	30kW	52	135
5-898-4	40kW, 50kW	52	135
5-898-6	10kW	52	135
5-898-7	80kW	52	135

## Wall-mounting Brackets

6770-120	10kW	52	\$110
6770-125	20kW, 30kW, 40kW, 50kW	52	110
6770-130	80kW	52	110

## Air Cooled, Liquid Dielectric

MODEL	CONNECTOR	POWER	PAGE	PRICE
8833-300 QC-LC(F)		1kW	47	\$ 695
8860 QC-LC(F)		1500W	47	775
8861 1/4 Unfl		1500W	47	785
8862 1/4 EIA FI		1500W	47	800
8863 3/4 Unfl		1500W	47	845
8864 3/4 EIA FI		1500W	47	865
8890-300 QC-LC(F)		2 1/2 kW	48	900
8890-008 Thermostat		52	120	
8891-300 3/4 EIA FI/50 Ω		2 1/2 kW	48	1030
8892-300 1/4 EIA FI/50 Ω		2 1/2 kW	48	925
8895-300 1/4 Unfl/50 Ω (Recessed Ctr Cond)		2 1/2 kW	48	935
8896-300 3/4 Unfl/51.5 Ω		2 1/2 kW	48	975
8897-300 3/4 Unfl/50 Ω (Flush Ctr Cond)		2 1/2 kW	48	975
8898-300 3/4 Unfl/50 Ω (Recessed Ctr Cond)		2 1/2 kW	48	990
BA-300-115, -230 Blower				
Increases any 8890-300 series to		5kW	48	540
8890-315 (115V) Load/Blower/2 Thermostat Assy		5kW	48	1840
8890-320 (230V) Load/Blower/2 Thermostat Assy		5kW	48	1840
8921 QC-LC(F)		5kW	48	1985
8922 1/4 EIA FI		5kW	48	2010
8926 3/				

## Forced Air-Cooled, Air Dielectric

MODEL	CONNECTOR	POWER	PAGE	PRICE
8570A-115-6 3/4 EIA FI		15kW	51	\$4635
8570A-230-5 3/4 EIA FI		15kW	51	4635
8571A-115-6 3/4 Unfl		15kW	51	4635
8571A-230-5 3/4 Unfl		15kW	51	4635
8572A-115-6 3/4 EIA FI		25kW	51	5355
8572A-230-5 3/4 EIA FI		25kW	51	5355
8573A-115-6 3/4 Unfl		25kW	51	5355
8573A-230-5 3/4 Unfl		25kW	51	5355
8574A-115-6 1 1/4 EIA FI		15kW	51	4840
8574A-230-5 1 1/4 EIA FI		15kW	51	4840

## TENULINE® Attenuators

MODEL	POWER	dB	PAGE	PRICE
8302 Series①	2W	1, 2, 3, 6, 8, 10, 14 or 20	53	\$ 28
8303 Series②	5W	3, 6, 10, 20 or 30	54	59
8304 Series②	10W	3, 6, 10, 20 or 30	54	70
8305 Series②	15W	3, 6, 10, 20 or 30	54	83
8306 Series②	25W	3, 6, 10, 20 or 30	54	95
8307 Series③	50W	3, 6, 10 or 20	55	205
8308 Series②	75W	3, 6, 10, 20 or 30	55	240
8321	50W	30	55	390
8322	200W	30	56	610
8323	100W	30	55	465
8325	500W	30	56	825
8327-300 (was 8327)	1000W	30	56	1030
2450-056 Thermoswitch			56	120
8329-300 (was 8329)	2000W	30	56	1360
8329-028 Thermoswitch			56	120
BA-300-115, -230 Blower				
Increases 8329-300 to 4000W			56	540
8345-115 or -230	6000W	30	62	4100
8340①	25W	3, 6, 10 or 20	54	205
8341①	*40W	3, 6, 10 or 20	54	225
8343①	100W	3, 6, 10 or 20	55	445

\*when bolted to heat sink

① add -.0, -.020, -.030, -.060, -.080, -.100, -.140, -.200 for 1, 2, 3, 6, 8, 10, 14 or 20dB respectively

② add -.030-N, .060-N, .100-N, .200-N, .300-N for 3, 6, 10, 20 or 30dB respectively (8307: no 30dB)

③ add -.030, -.060, -.100, -.200 for 3, 6, 10 or 20dB respectively

## 50 Ω Line Sections

PART NO.	ELEMENTS	CONNECTOR	PAGE	PRICE
4230-006-1	One	QC*	34	\$ 85
4230-018	One	Two QC-N(F)		100
4230-053	Two	QC*	34	150
4230-058	One, w/Bracket	Two QC-NF & NM		105
4230-059	One, w/Bracket	QC*	34	88
4501-000	One	1/2 FI	34	190
4502-000	Two	1/2 FI	34	275
4522-002-1	Two, panel mtg	Two QC-N(F)	—	133
4522-002-2	Two, panel mtg	One QC-HN(F) + 1 N(F)	—	155
4522-002-3	Two, panel mtg	One QC-BNC(F) + 1 N(F)	—	139
4522-002-5	Two, panel mtg	QC*	34	118
4600-000	One	3/4 FI	34	385
4610-000	Two	3/4 FI	34	448
4616-000	Hi/Reg	3/4 FI	34	479
4617-000	Hi	3/4 FI	34	420
4641-000	One	4 1/4 FI	—	685
4642-000	Two	4 1/4 FI	—	770
4843-000	One	4 1/4 Unfl	—	810
4844-000	Two	4 1/4 Unfl	—	860
4712-000	One	1 FI	34	235
4713-000	One	51.5 Ω 1 1/2 FI	34	185
4715-000	Two	1 1/2 FI	34	300
4720-000	One	1 Unfl	34	175
4720-025	One	1 Unfl	34	175
4723-000	Two	1 Unfl	34	268
4800-000	One	51.5 Ω 3 1/2 Unfl	34	185
4801-000	One	Special 3 1/2 Unfl	34	265
4801-100	Two	Special 3 1/2 Unfl	34	290
4802-000	Two	3 Unfl	34	310
4808-000	Hi	3 Unfl	34	260
4808-010	Hi/Reg	3 Unfl	34	350
4808-020	Hi	3 Unfl	34	240
4810-000	Two	51.5 Ω 3 1/2 Unfl	34	430
4805-000	One	3 Unfl	34	227
4902-000	**One	6 FI	34	850
4905-000	**Two	6 FI	34	965
4907-000	**One	6 Unfl	34	490
4909-000	**Two	6 Unfl	34	610

\*QC connectors not included \*\*DC cable(s) included

## Meters

PART NO.	TYPE	SCALES	PAGE	PRICE
2000-030	4 1/2" round②	5/10/25kW	37	\$118
2000-059	4 1/2" round②	15/30/60kW	37	118
2000-068	4 1/2" round②	8/80kW	37	118
2080-002	3 1/2" round①	25/50/100W	37	58
2080-005	3 1/2" square①	25/50/100W	37	59
2150-015	3 1/2" rect.①	25/50/100W	37	130
2150-088	4 1/2" rect.②	5/10/25kW	37	110
3127-035	4 1/2" rect.②	5/10/25kW	16, 37	235
3127-040	on panel*②	5/10/25kW	16, 37	390
3127-055	4 1/2" rect. + switch on panel*①	5/10/25kW	16, 37	270
3127-070	4 1/2" rect.	15/30/60kW	16, 37	260
3127-075	two 4 1/2" rect.	15/30/60kW	16, 37	390
3127-080	4 1/2" rect. + switch on panel*②	15/30/60kW	16, 37	270
6810-005	**in housing②	8/80kW	37	265
6810-007	**in housing②	15/30/60kW	37	265
6810-009-7	**in housing②	5/10/25kW	37	265
6810-020	**in housing, w/FWD & RFL switch②	5/10/25kW	37	320
6810-030	**in housing, w/FWD & RFL switch②	15/30/60kW	37	320
6810-065	**in housing②	8/80kW	—	265
6810-400	**in housing②	2.5/5/10kW	—	265
6810-407	**in housing②	15/30/60kW	—	265
6810-415	**in housing②	3/5kW	—	265
8-000	Kit w/cable①	25/50/100kW	37	70

## Power Sensors

MODEL	PAGE	PRICE
Standard Units for 4A 4E Series	—	\$200
4H Series	—	250

## Coaxwitch® Coaxial Selector Switches

MODEL	FUNCTION	PAGE	PRICE
72-R	2P Reversing	57	\$305
72-2	2P2T	57	320
74	1P6T	57	325
718	1P8T	57	350
7181	1P10T	57	410
7422	1P2T	57	255
7431	1P4T	57	285
7441	1P3T	57	275

## Accessories

### QUICK CHANGE CONNECTORS — QC

PART NO.	TYPE	PAGE	PRICE
4240-002	1/2 Swivel FI EIA 50 Ω	35	\$115
4240-012	LT(M)	35	110
4240-018	LT(F)	35	67
4240-025	LC(M)	35	72
4240-031	LC(F)	35	53
4240-050	UHF(F)	35	8
4240-062	N(F)	35	8
4240-063	N(M)	35	14
4240-075	LC(F) Bulkhead	35	105
4240-080	Open Terminal, 10:32 post	35	45
4240-090	SC(F)	35	30
4240-096	1 1/2 Fixed FI EIA 50 Ω	35	105
4240-100	C(F)	35	20
4240-110	C(M)	35	52
4240-125	BNC(F)	35	14
4240-132	BNC(M)	35	39
4240-138	LC(M) UG156A/U	35	145
4240-149	LC(F) UG157B/U	35	95
4240-156	TNC(F)	35	12
4240-160	TNC(M)	35	17
4240-179	UHF(M)	35	23
4240-208	1 1/2 Swivel FI EIA 50 Ω	35	130
4240-254	GR 874	35	56
4240-261	N(F) 75 Ω	—	24
4240-268	HN(F)	35	21
4240-278	HN(M)	35	39
4240-334	SMA(M)	35	59
4240-336	SMA(F)	35	39
4240-344	European 1/2 IEC Type 169-4	61	62
4240-346	UHF Miniature (Mini-UHF)(F)	35	31
4240-353	SC(M)	—	43
4100-014	SQC Small Pattern N(F)	36	12
4100-017	SQC Small Pattern UHF(F)	36	14
4100-015	SQC Small Pattern N(M)	36	19

## QUICK CHANGE CONNECTORS (CONT.)

PART NO.	TYPE	PAGE	PRICE
4100-055	SQC Small Pattern TNC(F)	36	\$22
4110-014	SQC Small Pattern BNC(F)	36	17

## MISCELLANEOUS ADAPTORS, CONNECTORS

PART NO.	DESCRIPTION	PAGE	PRICE
5-793-2	N(M) to UHF(F), UG-146A/U	41	\$ 17
4240-165	QC(F) to QC(F)	34, 36	26
4240-180	Copl. (M) to QC(F)	36	48
4240-187	3 FI Unfl/51.5 Ω to QC(F)	36, 52	90
4240-194	3 FI to QC(F)	36, 52	162
4240-201	1/2 FI to QC(F)	36, 52	98
4240-244	Rt. Angle QC	36, 52	81
4240-260	1 FI to QC(F)	36, 52	85
4240-400	Interseries Adaptor Kit [N, N, UHF, BNC, TNC, (M, F)]	37	85
4240-401	Interseries Adaptor Kit [N, UHF, BNC, TNC, SMA, (M, F)]	37	115
4600-025	3 FI FI to 1 FI FI EIA 50 Ω	36, 52	153
4712-015	1 FI to 1/2 FI EIA 50 Ω	36, 52	125
4902-025	3 FI to 6 FI EIA 50 Ω	36, 52	300
7500-076	DC Conn Plug	36, 52	7
8110-186	Copl. (M) to N(F)	36	43

## COUPLING KITS

PART NO.	LINE TYPE	PAGE	PRICE
4240-220	1/2 EIA FI/50 Ω	36, 52	\$ 62
4600-020	3 FI EIA FI/50 Ω	36, 52	78
4712-020	1 FI EIA FI/50 Ω	36, 52	48
4902-020	6 FI EIA FI/50 Ω	36, 52	345
5-289	3 FI Unfl/51.5 Ω*	36, 52	108
5-726	3 FI Unfl/50 Ω	36, 52	113
5-1322	6 FI Unfl/50 Ω	36, 52	260

\*with adapter to 50 Ω

## CABLE ASSEMBLIES

RG-58/U with DC Plug 7500-076 on one end for connecting Line Sections to Instruments

PART NO.	LGTH	OUTPUT CONNECTOR	PAGE	PRICE
3170-058-1	14"	BNC(M)	36	\$ 19
3170-058-6	6'	BNC(M)	36	22
3170-058-2	15'	BNC(M)	36	24
3170-058-3	25'	BNC(M)	36	30
3171-010	25'	BNC(M)*	36	53
3170-058-4	40'	BNC(M)	36	39
3170-058-5	50'	BNC(M)	36	41
3170-058-7	80'	BNC(M)	36	78
3170-058-8	90'	BNC(M)	36	84
3170-058-9	100'	BNC(M)	36	92
4220-097-4	9"	Spade Lug	36	18
4220-097-8	12"	Spade Lug	36	18
4220-097-5	16"	Spade Lug	36	18
4220-097-21	25"	Spade Lug	36	26
4220-097-1	33"	Spade Lug	36	26
4220-097-2	35"	Spade Lug	36	27
4220-097-22	48"	Spade Lug	36	29
4220-097-6	56"	Spade Lug	36	30
4220-097-23	64"	Spade Lug	36	31
4220-097-7	10'	Spade Lug	35	38
6810-041-1	10'	Spade Lug*	36	41
4220-097-9	15'	Spade Lug	36	42
4220-097-10	25'	Spade Lug	36	43
4220-097-11	25'	Spade Lug*	36	47
4220-097-19				

## ACCESSORIES (CONT.)

### DOLLIES

PART NO.	DESCRIPTION	PAGE	PRICE
6771-011	For 10 & 25kW Moduloads	52	\$275
6772-011	For 50kW Moduloads	52	315

### COOLANTS (in 1 gallon can)

PART NO.	DESCRIPTION	PAGE	PRICE
5-030-3	Refined Mineral Oil	52	\$23
5-1070-2	DC-200 Silicon	52	84
5-1134-3	Ethylene Glycol, Industrial Grade	52	30

## THERMOSWITCHES

PART NO.	ACTION	PAGE	PRICE
2450-056	Opens @ 155°C	56	\$120
2450-085	Closes @ 155°C	52	120
8329-028	Opens @ 200°C	56	120
8630-013	Opens @ 86°C	52	120
8640-066	Opens @ 77°C	52	120
8890-008	Opens @ 236°C	52	120
8890-017	Opens @ 226°C	52	120
8896-012	Closes @ 100°C	52	120

## BATTERIES

PART NO.	VOLTS	TYPE	PAGE	PRICE
5-733-1	6	NiCd	36	\$37

## BATTERIES (CONT.)

PART NO.	VOLTS	TYPE	PAGE	PRICE
5-733-2	12	NiCd	36	\$63
5-1230	1.25	NiCd	36	9
5-1375	9	Alkaline	36	4
5-1444	9	Lithium	36	94
5-1475	3	Li-Mn	36	3
5-1587	9	NiCd	36	15
5-1588	7.5	NiCd	36	Inq.

## MISCELLANEOUS

PART NO.	DESCRIPTION	PAGE	PRICE
5-1242	4381/2/3/4 Power Supply-120V	36	\$ 8
5-1257	4381/2/3/4 Power Supply-230V	36	21
3610-031	Dummy Plug	36	3

## Bird Electronic Corporation Limited Warranty

All products manufactured by Seller are warranted to be free from defects in material and workmanship for a period of one (1) year, unless otherwise specified, from date of shipment and to conform to applicable specifications, drawings, blueprints and/or samples. Seller's sole obligation under these warranties shall be to issue credit, repair or replace any item or part thereof which is proved to be other than as warranted; no allowance shall be made for any labor charges of Buyer for replacement of parts, adjustment or repairs, or any other work, unless such charges are authorized in advance by Seller.

If Seller's products are claimed to be defective in material or workmanship or not to conform to specifications, drawings, blueprints and/or samples, Seller shall, upon prompt notice thereof, either examine the products where they are located or issue shipping instructions for return to Seller (transportation-charges prepaid by Buyer). In the event any of our products are proved to be other than as warranted, transportation costs (cheapest way) to and from Seller's plant, will be borne by Seller and reimbursement or credit will be made for amounts so expended by Buyer. Every such claim for breach of these warranties shall be deemed to be waived by Buyer unless made in writing within ten (10) days from the date of discovery of the defect.

The above warranties shall not extend to any products or parts thereof which have been subjected to any misuse or neglect, damaged by accident, rendered defective by reason of improper installation or by the performance of repairs or alterations outside of our plant, and shall not apply to any goods or parts thereof furnished by Buyer or acquired from others at Buyer's request and/or to Buyer's specifications. In addition, Seller's warranties do not extend to the failure of tubes, transistors, fuses and batteries, or to other equipment and parts manufactured by others except to the extent of the original manufacturer's warranty to Seller.

The obligations under the foregoing warranties are limited to the precise terms thereof. These warranties provide exclusive remedies, expressly in lieu of all other remedies including claims for special or consequential damages. SELLER NEITHER MAKES NOR ASSUMES ANY OTHER WARRANTY WHATSOEVER, WHETHER EXPRESS, STATUTORY, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, AND NO PERSON IS AUTHORIZED TO ASSUME FOR SELLER ANY OBLIGATION OR LIABILITY NOT STRICTLY IN ACCORDANCE WITH THE FOREGOING.

## General Terms, Conditions of Sale

### TELEPHONE, TELEGRAPH AND CABLE ORDERS

Factory Telephone: (216) 248-1200  
 Telex: 706898 Fax: (216) 248-5426  
 Cable address: BIRDELEC  
 D-U-N-S Number: 00-418-9957  
 Bird Electronic Corporation  
 30303 Aurora Road  
 Cleveland (Solon), Ohio 44139  
 Eastern Sales Office: (216) 248-1200  
 Western Sales Office (Ca.): (805) 646-7255

### SHIPPING INSTRUCTIONS

Unless specific instructions accompany the order, we shall use our judgement and select the best method for your shipment.

#### MINIMUM BILLING

The minimum billing per order is \$25.00.

### CONDITIONS OF SALE

Determination of price, terms and conditions of sale and final acceptance of orders are made only at our factory in Cleveland (Solon), Ohio. Change orders subject to \$20 administrative charge.

### CUSTOMER SERVICE

Bird maintains a complete repair and calibration department. Equipment to be repaired should be shipped prepaid, attention CUSTOMER SERVICE. Repairs over \$200 will be quoted for approval unless authorization to repair is received with the unit. Repaired items will meet original factory specifications.

Repairs are warranted for 90 days except for semi-conductor devices and batteries.

### SPECIFICATIONS

We reserve the right to discontinue any item without notice and to change physical and electrical specifications at any time without incurring any obligation to incorporate new features in instrument or parts previously sold. For instruments offered with the "QC" Connector feature, maximum VSWR values listed in the specifications are obtained with the connector type shown as "normally supplied."

Listed power ratings for aircooled terminations are valid to 5000 ft. For operation at higher elevations, please contact us for applicable derating factor.

### SPECIAL DATA

Individual special performance data can be provided for most Bird products at a minimum charge of \$40 per unit.

### QUANTITY DISCOUNTS

Available on most equipment when 25 pieces or more of the same model are ordered.

**U.S.A. Regional Offices:** Our east and west coast offices will provide complete technical and sales service and visits at your facility as may be desired. Call these offices, or the factory for referral to a close-by distributor — for quick deliveries.

**Eastern**  
 Bird Electronic Corp.  
 30303 Aurora Road  
 Cleveland, OH 44139  
 Phone: 216-248-1200  
 TLX: 706898  
 FAX: 216-248-5426

**Western**  
 Bird Electronic Corp.  
 621 W. Ojai Ave., Suite F  
 P.O. Box 28  
 Ojai, CA 93023  
 Phone: 805-646-7255

### DISTRIBUTORS

Bird equipment is stocked throughout the United States and overseas. Inquire at Solon or the West Coast Sales Office for closest distributor.

### PRICE CHANGES

All prices are subject to change without notice. Formal price quotations remain valid for 60 days.


### TAXES

Applicable Federal, State or Local taxes that are in effect at the time of shipment will be added unless Certificate of Exemption is furnished by the purchaser.

### TERMS

All prices are F.O.B. Cleveland (Solon), Ohio. Terms net 30 days for established accounts.

Export Terms: Please request Overseas Representatives listing.

 The President of the United States  
 Award for Excellence in Exports

**BIRD**  
 Electronic Corporation