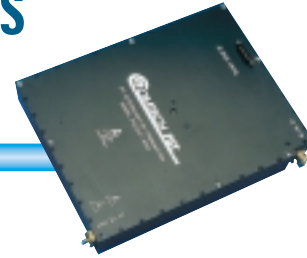


PULSE AMPLIFIERS

1030 MHz 4kW



Series PHE/PHC

DESCRIPTION:

Series PHE/PHC pulse amplifiers are available in both rack mount or module configurations, featuring PST's modular construction and rugged design. Amplifiers are available from 100 through 1600 MHz, with power levels from 500 W to 16 KW peak. Custom designs are available for different frequency ranges and output powers. Typical applications include Radar and TACAN/DME/IFF:

FEATURES:

- Frequency range 100 to 1600 MHz
- Power output up to 16 KW peak
- 10% bandwidth (typical) up to 3 GHz
- Field-replaceable modules
- Remote control/monitor interfaces
- Built-in test diagnostics
- Graceful degradation

ELECTRICAL

RF Input Power	1 mW (0 dBm), for full power output
RF Input Signals	Pulse modulation
Input Overdrive Projection	+8 dB
Out of Band Projection.....	+8 dB
Input VSWR.....	2:1 maximum
Output Load VSWR:	
• Series PHE.....	1.3:1, full forward power output; 2.0:1, -0.5 dB maximum
• Series PHC	Circulator protection
Harmonics:	
• <One Octave	-30 dBc
• >One Octave:	
• Even	-20 dBc
• Odd	-12 dBc
Spurious Signals	-60 dBc
Class Operation	AB or C
Connectors (Standard Rack-Mounted Units)	
RF Input	Type N, rear panel
RF Output	Type N or SC, rear panel
AC Primary Power (Rack Mounted Units)	
• Model Dependent.....	115/220 VAC single phase or 208 3-phase, 5 wire 50/60 Hz
• Indicators	Power on, thermal overload, fault sense
• Protection	Load VSWR, thermal overload, input overdrive, graceful degradation, overvoltage, undervoltage, overcurrent

AVAILABLE OPTIONS

- Rack Mounting Slides
- Remote Turn-on/off
- Other Frequency Ranges
- Internal Modulator
- Pulse Shaping
- Sample Ports (Forward, Reflected)
- Other Primary Power (AC or DC)
- IEEE 488/RS232/RS422/RS485/Ethernet Control/Monitor interfaces
- Custom Configurations
- Modules
- DC Operation

For Environmental Specifications, see Page 18, Table 2.

Model No.	Frequency Range (MHz)	Peak Power Output	Pulse Width (max)	Duty Cycle %	Rise/Fall Time (max)	Configuration Height				Total Height		Total Weight	
						Amplifier		Power Supply		(in)	(cm)	(lbs)	(kg)
						(in)	(cm)	(in)	(cm)				
BPHED5819-1000	500-1000	1000 w	100 µsec	4%	40 nsec	8.75	22.23	5.25	13.34	14.0	35.56	150	68
PHC1039-100	1030-1090	100 w	800 nsec	1%	100 nsec	5.25	13.34	-	-	5.25	13.34	80	36
BPHC128148-1500	1200-1400	1500 w	5 µsec	20%	150 nsec	7.0	17.78	5.25	13.34	12.25	31.11	320	145
PHC1037-4000*	1030	4000 w	17 µsec	1%	80 nsec	1.15	2.92	-	-	1.15	2.92	12	5.41
BPHC1281-500	1200-1400	500 w	150 µsec	5%	300 nsec	5.25	13.34	-	-	5.25	13.34	45	20
BPHED2898-1000	200-900	700 w	27 µsec	35%	5 nsec	42	106	8.75	22.23	50.75	129	700	315
BPHC968129-3000	960-1215	3000 w	4 µsec	5%	2 nsec	8.75	22.23	5.25	13.34	14.00	35.56	130	60
CPHC1030-6400	1030	6400 w	800 nsec	.036%	<150 nsec	10.5	26.67	-	-	10.5	26.67	40	18
CPHC128148-1000*	1215-1400	1000 w	8 msec	5%	<200 nsec	2.00	5.08	-	-	2	5.08	9	4
BPHE157457-2000	150-450	2000 w	100 msec	6%	150 nsec	21	53.35	8.75	22.23	29.75	75.5	325	146
CPHC447-16000	449	16000 w	<100 msec	10%	500 nsec	65.4	166	-	-	65.4	166	700	315
BPHE6895-1000	600-950	1000 w	1 µsec	1%	50 nsec	8.75	22.23	5.25	13.34	14	35.56	163	73
CPHC148168-1000	1400-1600	1000 w	1 µsec	1%	50 nsec	5.25	13.34	-	-	5.25	13.34	40	18

* MODULE CONFIGURATION

Specifications are subject to change without notice.