

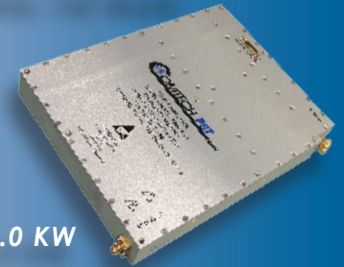
# PULSE AMPLIFIERS

## Series PHE/PHC

Series PHE/PHC pulse amplifiers are available in both rack mount and modular configurations, featuring PST's modular construction and rugged design. Amplifiers available from 400MHz through 1600MHz. Module products features basic control and monitor functions. Rack mount products features built in test and optional digital interface. Custom designs available for different frequency ranges and output powers.



1000 MHz 150 Watts



1030 MHz 4.0 KW

### AVAILABLE OPTIONS

- Forward/ Reflecting Sample Ports
- Pulse Width and Duty Factor Input Protection
- Custom Control and Monitoring Configurations
- Rise/Fall time and Spectrum Containment Pulse Shaping
- Digital Interfaces available: ETHERNET, RS422, RS232, IEEE488
- Other Primary Power (AC or DC)
- Custom Specifications
- Internal Modulator
- Rack Mounting Slides
- Remote On/Off

### TYPICAL APPLICATIONS:

- Radar
- TACAN/DME/IFF

### ELECTRICAL

Class of Operation .....	AB or C (model dependant)
RF Input Power.....	+10dBm for full output power (0dBm available)
RF Input Signals.....	Pulse Modulation
Input VSWR.....	2.0:1 nominal
Output Load VSWR	
Series PHE .....	1.3:1: full forward power output
Series PHC .....	2:1: 0.5dB turndown nominal
Series PHC .....	infinite: 10dB turndown nominal
Series PHC .....	Circulator Protection
Maximum RF Input .....	+18dBm or 8dBm
RF Connectors	(model dependant)
• Modules	
Input .....	Female SMA
Output .....	Female SMA, TNC, or N (model dependant)

• Rack Mount	
Input .....	Female Type N, Rear Panel
Output .....	Female Type N or SC, Rear Panel (model dependant)
Built in Test (rack mount models)	
• Indicators	Power On, Thermal Overload, Fault Sense
• Protection .....	Load VSWR, Thermal Overload, Input Overdrive, Graceful Degradation, Over voltage, Under voltage, Over current
AC Input .....	Power Factor Corrected Universal Input 100 – 240Vac, 50/60Hz
	Power Factor Corrected 208, 380 or 440VAC available, 50/60Hz, 3 Phase 5 wire (400Hz available)

Model No.	Frequency (MHz)	Power Out (peak watts min)	Pulse Width (max)	Duty Factor (% max)	Rise/Fall Time (max)	Dimensions (power amp)						Combined Weight (lbs) (kg)	
						Height (in)	Height (cm)	Width (in)	Width (cm)	Length (in)	Length (cm)		
<b>MODULES</b>													
PHC427457-500	430 - 450	500	2ms	10	200ns/200ns	A 4.25	10.8	6.47	16.43	11.95	30.35	7.41	3.37
PHC427457-520	420 - 450	520	100us	10	200ns/200ns	1.32	3.35	6	15.24	11.5	29.21	4.31	1.96
PHC1037-2500	1030	2500	<b>B</b>	<b>B</b>	100ns/100ns	1.28	3.25	6.74	17.12	8.5	21.59	3.6	1.64
PHC1037-4000	1030	4000	<b>B</b>	<b>B</b>	100ns/100ns	1.28	3.25	6.74	17.12	8.5	21.59	3.83	1.74
<b>RACK MOUNT</b>													
BPHED5819-1000	500-1000	1000	100us	4	40ns/40ns	8.72	22.15	19	48.26	26.25	66.68	165	75
BPHC968129-3000	960-1215	3000	4us	5	2us/2us	8.72	22.15	19	48.26	21.5	54.61	130	59.1
PHC19-150	1000+/-10	150	1us	5	50ns/50ns	5.22	13.26	19	48.26	14.5	36.83	25	11.36
PHC1039-1000	1030 & 1090	1000	800ns	0.03	100ns/100ns	5.22	13.26	17	43.18	14.5	36.83	80	36.36
CPHC1030-6400	1030	6400	800ns	0.036	150ns/150ns	10.47	26.59	19	48.26	18	45.72	44	20

### NOTES

- A** Size includes: Heat Sink and Mounting Flange  
**B** IFF Compliant: MODES 1, 2, 3, 4, MODE-S, Short Message, and MODE-5 Long Message 32us MODE-S Available  
 Units are specified for military aircraft environment

Specifications are subject to change without notice.