

High Power Amplifiers



Description

AHP series high power amplifiers are discrete and/or MMIC PHEMT based amplifiers that operate at the frequency range between 18 to 98 GHz for high output power applications. The amplifiers are offered in two categories, namely, standard and custom built. The custom built amplifiers are offered in various RF interfaces, including standard waveguide or coax connectors, for convenient system integration. The optional input and output integrated isolators are available to further improve the port return loss.

Features

- High output power and IP3
- Up to full waveguide bandwidth
- Single power, compact and light weight
- Wide operational temperature range

Applications

- Communication transceivers
- Radar front
- Power block for multiplier chains
- Transceiver subassemblies

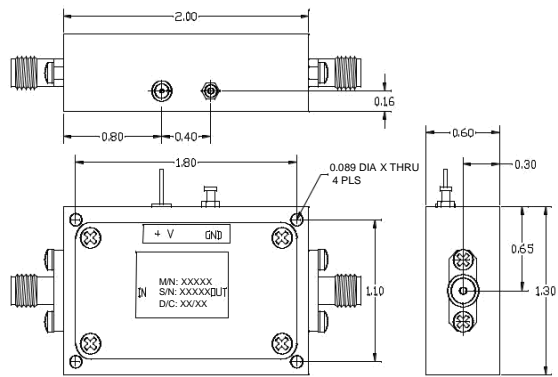
Specifications

Model Number	Frequency (GHz)	P-1 (dBm/Min)	Gain (dB/typ)	Current(mA) (max @ 12V)	-40°C to +50°C VSWR	Outline
AHP-22092825 -01	18.0 - 26.5	28	25	550	2:1	WT-A-2
AHP-30052925 -01	27.0 - 32.0	29	25	650	2:1	WT-A-2
AHP-34043025 -01	32.0 - 36.0	30	25	1,100	2:1	WT-A-2
AHP-38043025 -01	36.0 - 40.0	30	25	900	2:1	WT-A-2
AHP-41082220 -01	37.0 - 45.0	22	20	500	2:1	WT-A-2
AHP-42042625 -01	40.0 - 44.0	26	25	1,500	2:1	WT-A-2
AHP-61101625 -01	55.0 - 65.0	16	25	200	2:1	WT-A-5
AHP-61181628 -01	52.0 - 70.0	16	28	200	2:1	WT-A-5
AHP-73062220 -01	71.0 - 76.0	22 (Psat)	28	700	2:1	WT-A-5 WT-A-11
AHP-83062120 -01	81.0 - 86.0	21 (Psat)	28	700	2:1	WT-A-5 VWT-A-11
AHP-94021818 -01	93.0 - 95.0	18	18	500	2:1	WT-A-5
AHP-94022424 -01	93.0 - 95.0	26 (Psat)	24	1,500	2:1	WT-A-14

All specifications are subject to change without notice.

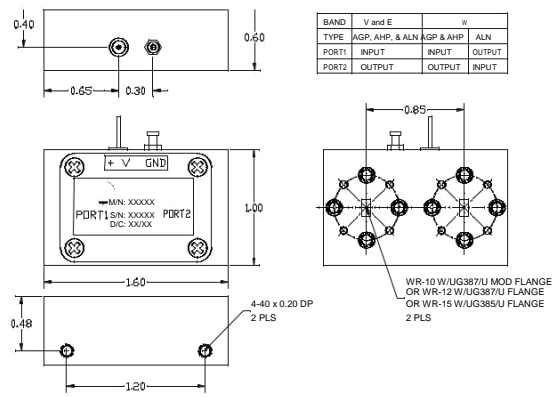
For more information, contact our sales team

Outline Drawings



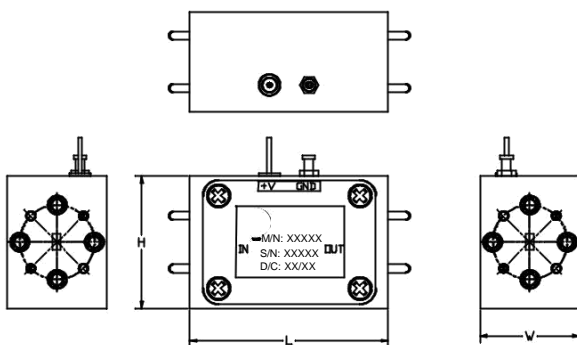
Dimensions are in inches

WT-A-2



Dimensions are in inches

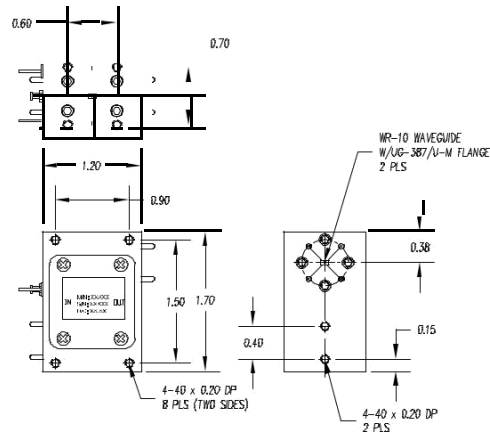
WT-A-5



BAND	L	H	W
V, E, & W	1.50	1.00	0.75
Q & U	1.80	1.13	1.13

Dimensions are in inches

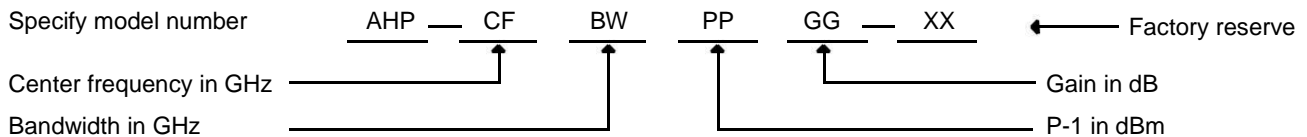
WT-A-11



WT-A-14

Custom Built Amplifiers

The amplifiers with the performance other than listed above are available per customer's request. You may submit your specifications along with the model number per the following instructions.



Ordering Example: High power amplifier with center frequency 38 GHz, 2 GHz bandwidth, 33 dBm P-1 power and 25 dB gain, specify AHP-38023325-XX

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