

## Description

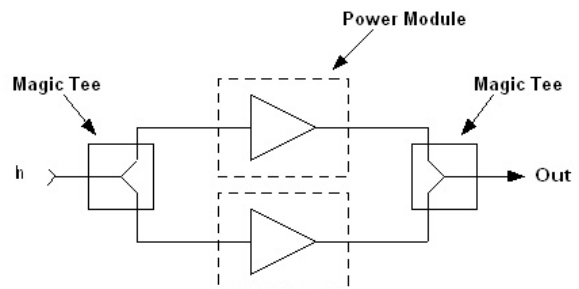
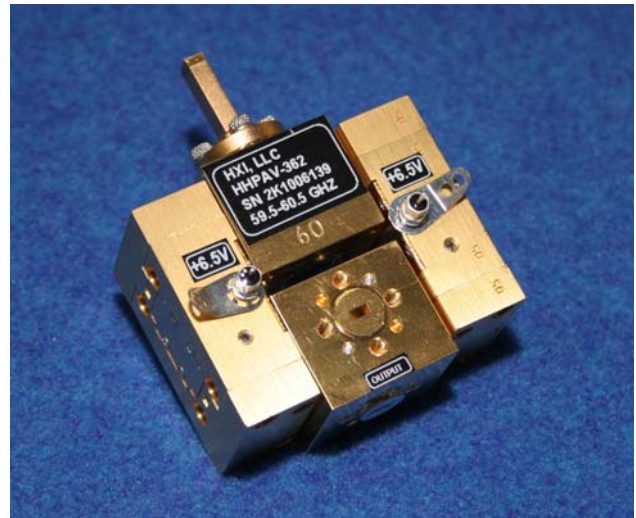
The HHPAV-362 Power Amplifier covers the frequency range from 59 to 61 GHz and is usable to 65 GHz. MMIC technology is employed for high reliability and repeatability.

The amplifier can be used in transmitters for communication and radar systems and also as part of test equipment suites. Multiple devices have been combined to achieve the output power.

Each power amplifier contains a voltage regulator and bias sequencing circuitry allowing the use of a single bias to power the amplifier.

The Amplifiers can be integrated with upconverters and other components to form custom subassemblies for specific applications.

This product is for domestic sale only.



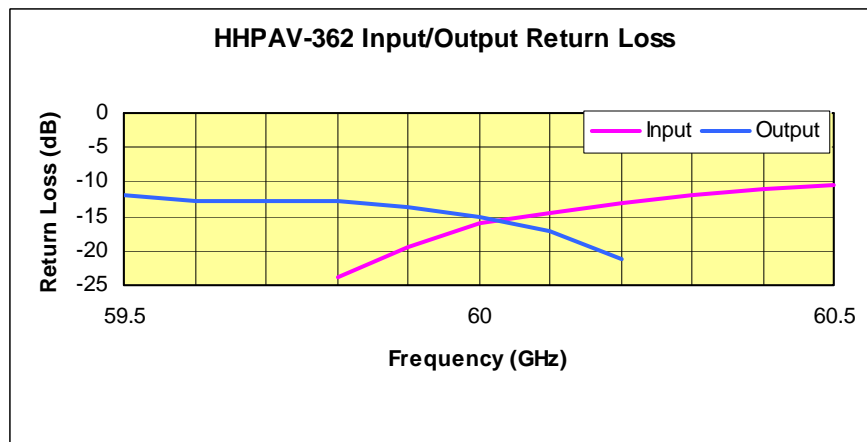
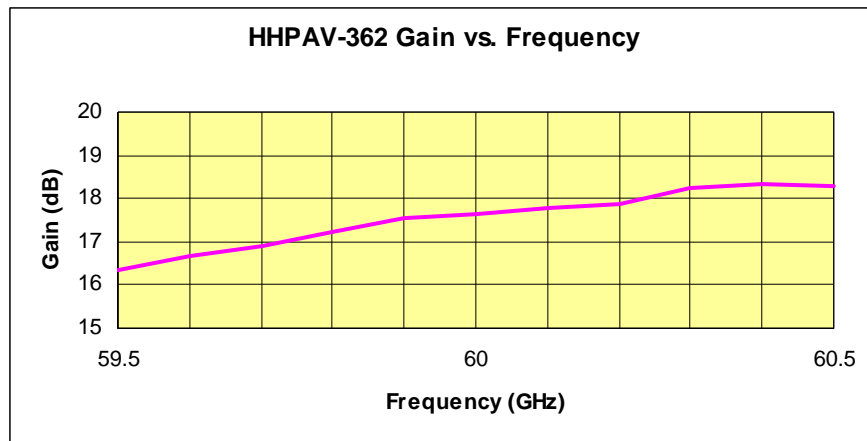
## Applications

- Terrestrial Communications
- Radar Transmitters
- Test Equipment
- Satellite Crosslinks

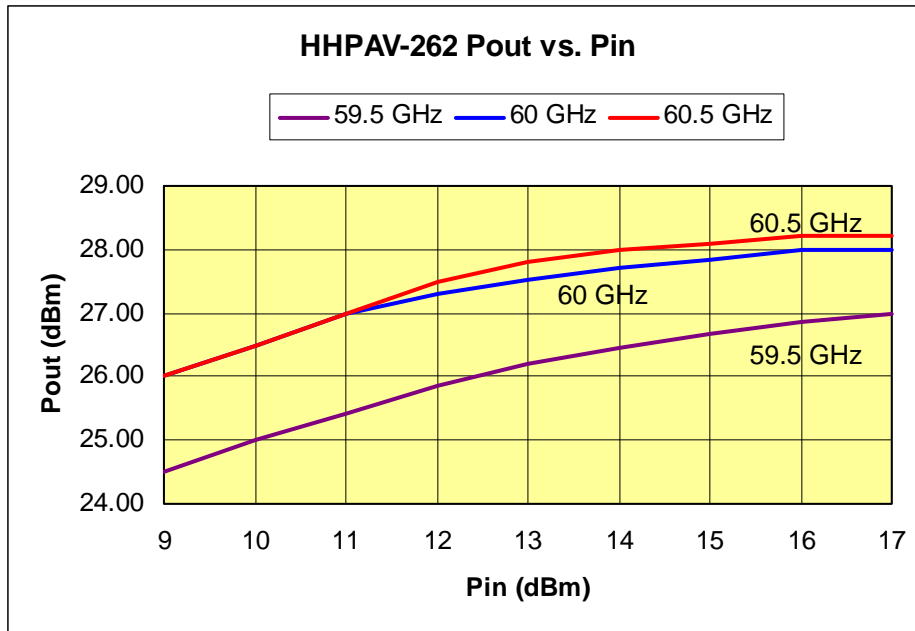
## Features

- High P<sub>1dB</sub> or PSAT
- Single Bias / Internal Regulation
- Internal Bias Sequencing

HHPAV-362 Specifications				
Parameter	Minimum	Typical	Maximum	
Frequency Range	59.0		62.0	GHz
Small Signal Gain		18		dB
$P_{1dB}$		+24		dBm
$P_{SAT}$		+27		dBm
Third Order Intercept		+32		dBm
Input Return Loss		13		dB
Output Return Loss		13		dB
Interface	WR-15, UG-385/U			
DC Bias	+6.5 VDC @ 1.3A typical (linear operation) +6.5 VDC @ 1.8A typical ( $P_{SAT}$ operation)			



## Typical Output Power Data for HHPAV-362 Power



## Other Available Power Amplifiers for 50 to 70 GHz

This is just a sample listing of available power amplifiers.  
Please choose from these models or contact factory with your requirements.  
Please identify your required frequency range with any inquiry.

Model Number	Frequency Range (GHz)	Input/Output	P <sub>1dB</sub> (dBm) typical	Gain (dB) typical
HMPAU-1B	50.0-60.0	WR-19, UG-383/U	+10	12
HMPAU-2B	50.0-60.0	WR-19, UG-383/U	+14	21
HMPAV-1A	50.0-60.0	WR-15, UG- 385/U	+10	12
HMPAV-2A	50.0-60.0	WR-15, UG- 385/U	+14	21
HHPAVC-250	50.0-66.0	1.85 mm Female	+16	35
HHPAV-261	53.0-60.0	WR-15, UG- 385/U	+14	15
HMPAV-1B	55.0-65.0	WR-15, UG- 385/U	+10	12
HHPAV-297	55.0-65.0	WR-15, UG- 385/U	+13	30
HHPAV-222	55.0-65.0	WR-15, UG- 385/U	+14	25
HHPAV-355	55.0-65.0	WR-15, UG- 385/U	+17.5	28
HHPAV- 082	57.0-59.0	WR-15, UG- 385/U	+18	28
HHPAV-330	57.0-66.0	WR-15, UG- 385/U	+14	25
HHPAV-295	57.0-66.0	WR-15, UG- 385/U	+15	29
HHPAV-254	57.5-66.0	WR-15, UG- 385/U	+17	25
HHPAV- 070	59.0-61.0	WR-15, UG- 385/U	+16	20
HHPAV- 023	59.0-61.0	WR-15, UG- 385/U	+18	25
HHPAV-186	59.5-63.5	WR-15, UG- 385/U	+18	30
HHPAV-356	60.0-62.0	WR-15, UG- 385/U	+18	30
HHPAV- 050	62.0-64.0	WR-15, UG- 385/U	+16	30

Specifications @ 35°C T<sub>CASE</sub>, Specifications subject to change w/o notice.