

**30W 50Ω 600 to 2500 MHz**


## Description

The KSA30W6002J5 High Power Amplifier that operates from 600MHz to 2.5 GHz at a saturated output power of +46 dBm. This high power class A amplifier has an extremely flat gain 50dB a tolerance of +/-1.3dB.

## Applications

There is a wide range of applications from 600 to 2500 MHz, such as test instrumentation, SatCom, and mobile communications systems, including those operating in the new telecommunications Band 71 allocation (617 to 698 MHz).

## Electrical Specifications (at 25°C):

Parameters	Min	Typical	Max	Units
Frequency Range	600		2500	MHz
Gain	47	50	55	dB
Gain Flatness			-/+2.0	dB
Psat	43	44		dBm
Output @ 3dB Compression	44	46		dBm
Noise Figure		5.5		dB
Input VSWR			1.3	:1
Output VSWR			1.2	:1
AC Voltage		120		V @60Hz
AC Current		1.4		A @60Hz

*Small signal input power usually -35dBm*

## Environmental Parameters:

Operating Temperature	-20°C to 60°C
Storage Range	-55 to 100°C
Input RF Power (no damage)	0 dBm
Thermal Overload	85°C +/-5°C

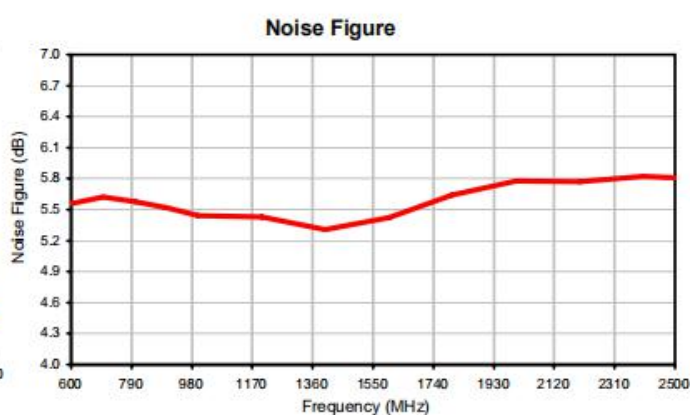
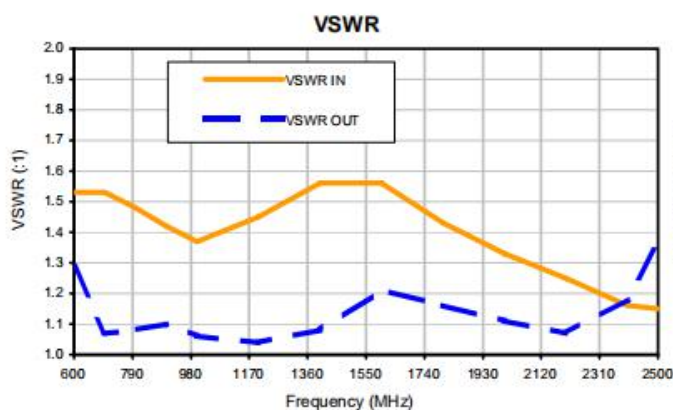
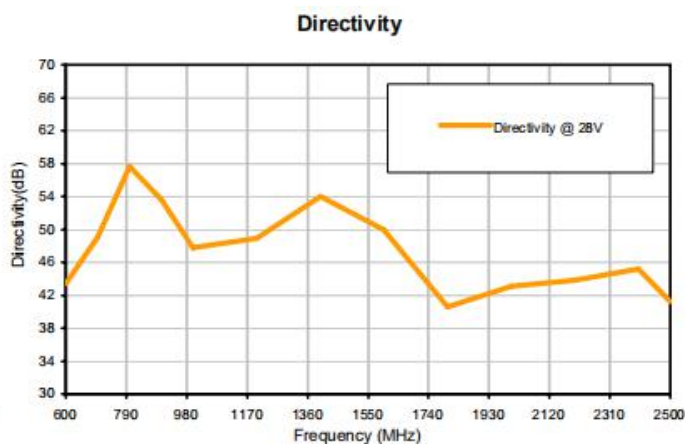
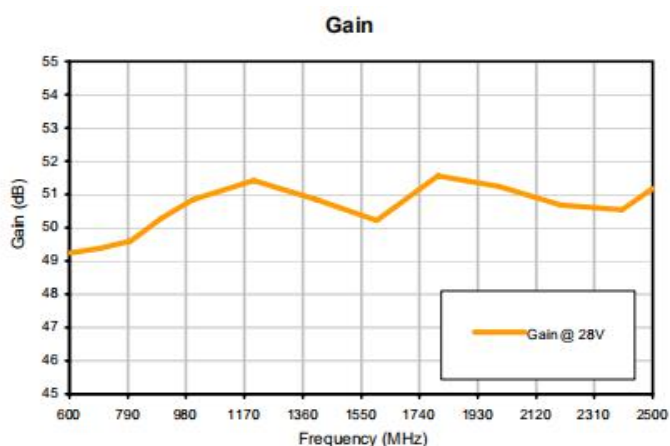
Shock Normal Truck Transport  
Vibration Normal Truck Transport

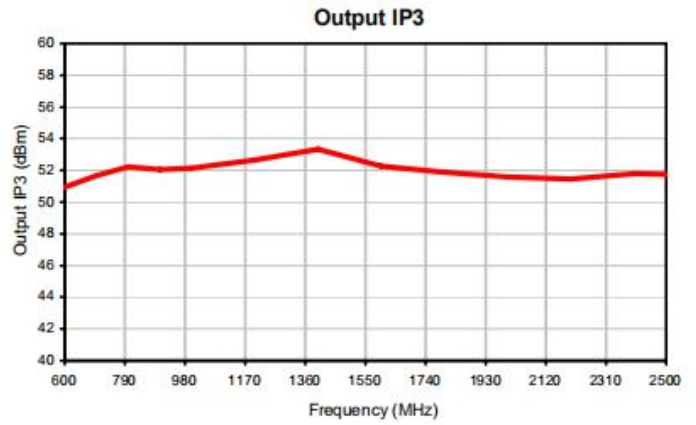
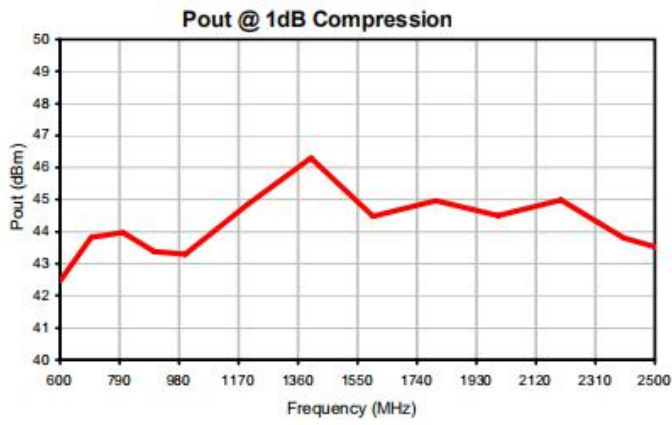
### Mechanical:

Overall Length  
(not including  
RF connectors): 300mm (11.8 in)  
Overall Width: 200mm (7.87 in)  
Overall Height: 96mm (3.78 in)  
Weight: 3.0kg

Enclosure body: Aluminum (Gray)  
Input Connector: N-type  
Output Connector: N-type  
LED Power Indicator (Red)

### Typical Performance Data





*Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.*

*All components in this product are fully compliant with:*

