

TWPA4027003200A

10W Ka band Power Amplifier



Main Features

- Wide bandwidth, 27 to 32 GHz
- 10 W output power
- High gain: 37 dB Typical
- 2.92 mm female Connectorized
- Supply voltage: 85-264 VAC

Typical applications

- Wireless Infrastructure
- Military & Aerospace
- RF Microwave & VSAT
- Test Instrumentation

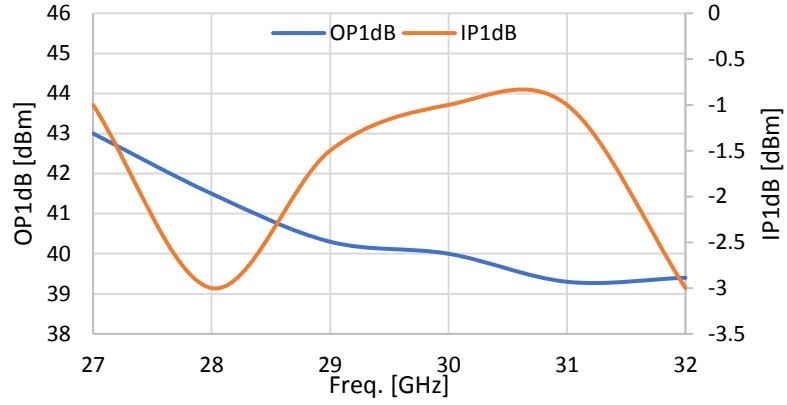
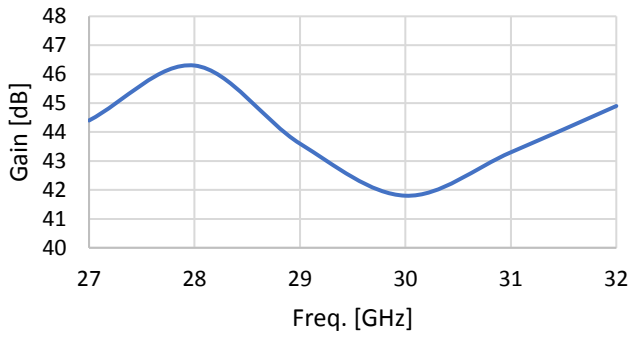
Electrical Specifications:

Parameter	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Frequency Range	GHz	27		30	30		32
Small Signal Gain	dB	31	37	45		35	
Gain Variation Over Temperature Range	dB		+/- 4			+/- 3	
Input VSWR	:1		2.0	2.35		2.0	
Output VSWR	:1		1.8	2		1.8	
Saturated Output Power level	dBm	40	40.5			39.5	
Isolation S12	dB		-45			-45	
Input Power Level (no damage)	dBm			15			15

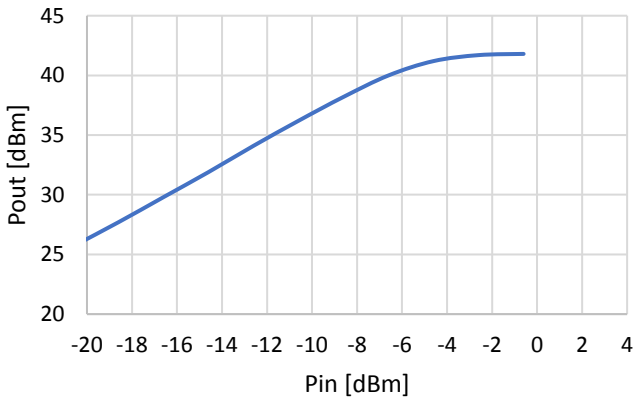
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Measures

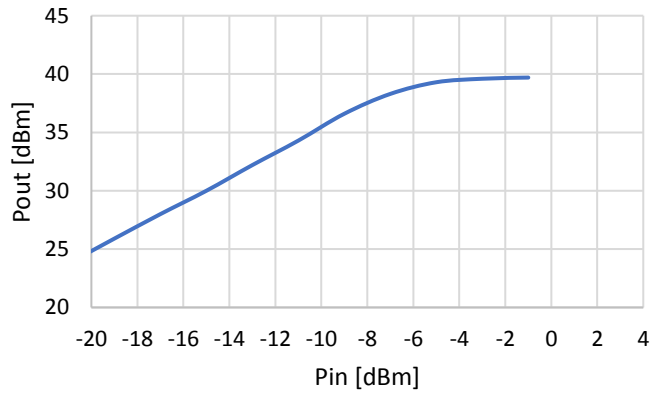
Gain



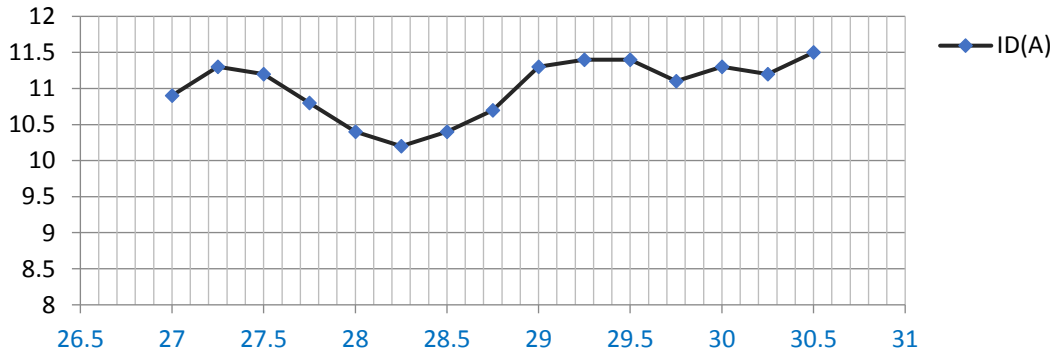
Pout vs Pin @ 28 GHz



Pout vs Pin @ 32 GHz



ID(Amps)@OP-1dB vs. Frequency(GHz)





Environment

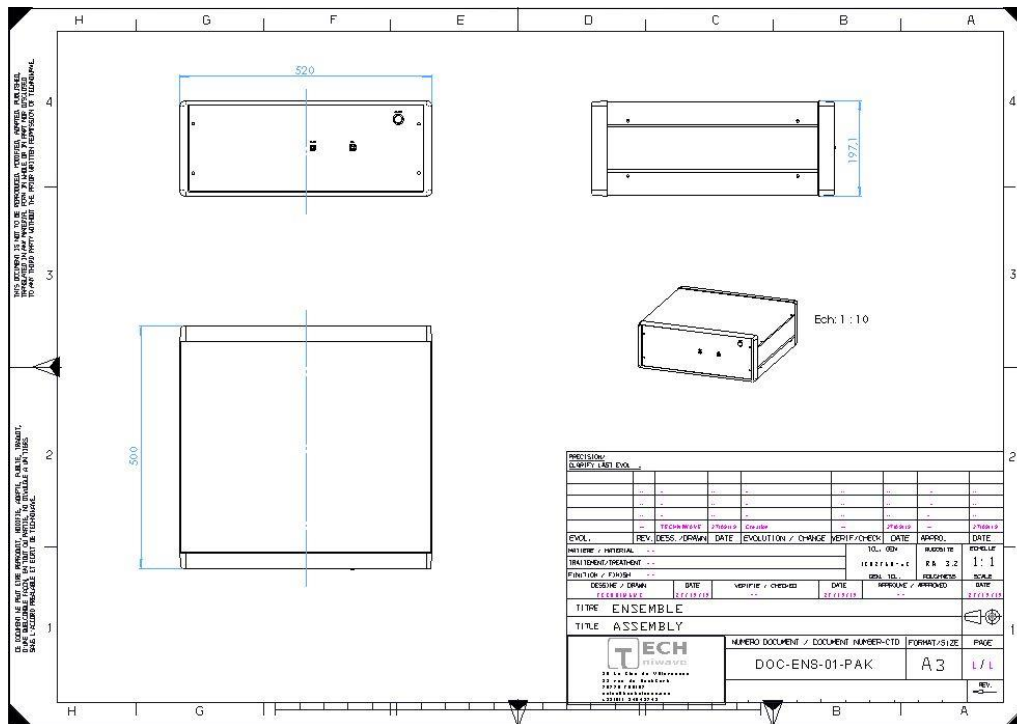
Parameter	Unit	Specification
Operating temperature	°C	-20°C to +60°C
Storage temperature	°C	-40°C to +85°C
Relative Humidity	%	<95, @ +40°C

Mechanical Specifications

Parameter	Unit	Specification
Dimension	mm	520*500*197
RF connectors		2.92 - Female
Material		Aluminum
Integration		Rack 4U 19"

Outline Drawing

All dimensions are in mm



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