

High-Power Pulsed Amplifier

DM-HPS-1K-102



Specifications are subject to change without notice

Electrical Specifications (+25°C)

Parameter	Value
Frequency	2.9 to 3.1 GHz
Power Gain	45 dB min
Input Power	+15 dBm for rated Pout
Output Power	+60.8 dBm min, (1200W min, 1300W typ)
Amplitude Droop	1 dB max (0.5 dB typical)
Output Rise Time	150 ns max (50 ns typical)
Output Fall Time	150 ns max (50 ns typical)
Input VSWR	1.5:1 max
Output VSWR	1.5:1 max
DC Power	32V, 11A at 10% duty cycle
PAE	35% typical
2nd Harmonics	-50 dBc max
Spurious	-60 dBc max
Operation	Pulse (15% max duty cycle)

Mechanical Specifications

Parameter	Value
Size (L x W x H)	12 x 8 x 1.75 inches
RF Connectors	Input – SMA (f), Output – N (f)
DC Connector	M24308/3-1 or equivalent
Finish	Grey Paint, Mounting surface chem-film
Marking	Black per MIL-STD-130
Cooling	External heatsink (air-cooled)
Weight	10 lbs. max

Features

Parameter	Value
Interface	TIA-485 interface
Temp Protection	Included
Current Protection	Included
Duty Cycle Protection	Included

Environmental Specifications (by design)

Parameter	Value
Operating Temperature	-30 to +70°C (mounting surface)
Storage Temperature	-30 to +90°C
Relative Humidity	up to 95% (non-condensing)
Altitude	up to 15,000 ft.
Shock	100 G, 6mS, half sine

Need More Help? Need a Variant of This Product?

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