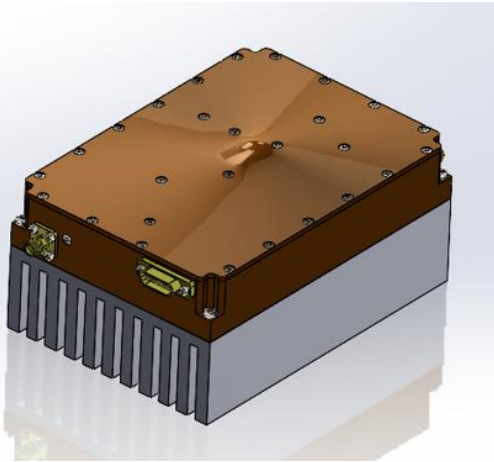


# 2225-MEC-100W-PA

2200-2500MHz 100W Power Amplifier



The 2225-MEC-100W-PA is high power solid state power amplifier. This amplifier module utilizes the latest GaN based technology. Salient feature includes TTL control for enable / disable which make it suitable for airborne applications.



## Product Features

Modulations: CW, FM, AM, FSK, QPSK, OFDM

(Linear modulations with back-off power)

Single Supply Operation: Nominally 28V

Temperature Monitoring

Reverse Power Protection

Symbol	Parameter	Unit	Min.	Typ.	Max.
BW	Operating Frequency	MHz	2200		2500
PIN	RF Input	dBm		0	
PSAT	Output Power Saturated	dBm		≥49	
GF	Gain Flatness	dB		±1	
VSWR	Input / Output VSWR			≤1.3	
GTX	Tx Gain	dB		≥49	
S11	Input Return Loss	dB		≤-15	
VDC	Operation Voltage	Volt		28.0	
°C	Operating Temperature	°C	-40	25	+60

## Electrical Specifications @ +28.0VDC, 25°C, 50Ω System

Parameters	Value	Limit	Unit
Dimension (L x W x H )	144 x 102 x 65	-	mm
RF Connector Input / Output	SMA Female	-	-
DC Interface Connector	J30J Series Micro-D MIL-Spec Connector	-	-

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## Protection & Monitoring Parameters

Item	Specifications for Activation	Remark
TTL Enable/Disable	Yes	TTL option available in Micro-D connector
Reverse Power Protection	Yes	
High Temperature Protection	Yes	

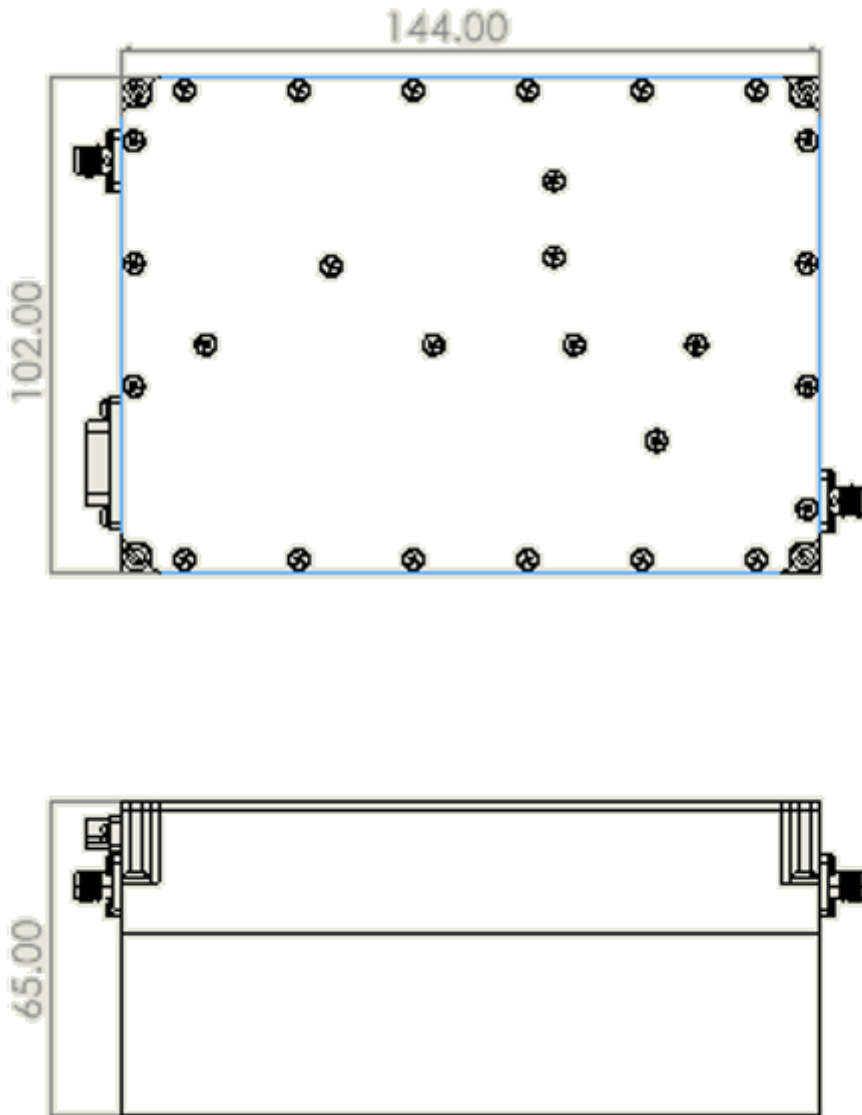
## DC Interface (21pin Micro-D Connector)

Pin No	Pin Description	Specifications	Remark
1	FPM	Forward Power Monitoring	
3	VSWR	VSWR Monitoring	
5	Temperature Monitor	Temperature Monitoring	
7	V1	Atten 0.5dB	
9	V2	Atten 1dB	
11	V3	Atten 2dB	
12	V4	Atten 4dB	
13	V5	Atten 8dB	
14	V6	Atten 16dB	
2,4,6,8,10,15,20	GND	GND	
16-19	+28V	+28VDC	
21	TTL	Enable / Disable	

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## Mechanical Drawing



Note: All Dimensions are in mm.