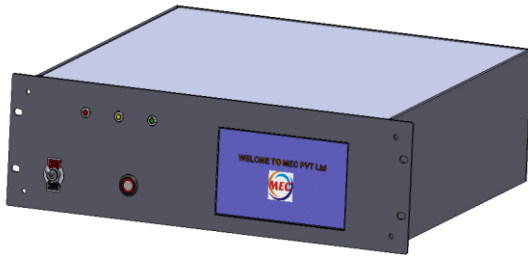


4050-MEC-100W-UHF

400-500MHz 100W Power Amplifier



The 4050-MEC-100W-UHF is a 100 Watt high gain Solid State Power Amplifier Module. This amplifier module utilizes the latest GaN based technology. Salient feature includes TTL control for enable / disable and power selection mode.

Product Features

100W Output at Psat Modulations: CW, FM, AM, FSK, QPSK, OFDM (Linear modulations with back-off power Single Supply Operation: Nominally 220VAC Temperature Monitoring Power Control Option Forward and Reverse Power Protection

Symbol	Parameter	Unit	Min.	Typ.	Max.
BW	Operating Frequency	MHz	400		500
PIN	RF Input	dBm		-10	
Pout-1	Output Power 1	dBm		≥40	
Pout-2	Output Power 2	dBm		≥44	
Pout-3	Output Power 3	dBm		≥47	
Pout-4	Output Power 4	dBm		≥49	
GF	Gain Flatness	dB		±1	
VSWR	Input / Output VSWR		1.2	1.4	1.6
H	Harmonics	dBc		≤-40	
S	Spurious	dBc		≤-60	
G _{TX}	Tx Gain	dB		≥60	
S ₁₁	Input Return Loss	dB		≤-15	
VAC	Operation Voltage	Volt		220	

Electrical Specifications @ 220.0VAC, 25°C, 50Ω System

Parameters	Value	Limit	Unit
Dimension (L x W x H)	550 x 450 x 132.5	-	mm
RF Connector Input / Output	SMA Female/N-Type Female	-	-
Other Connectors	<ul style="list-style-type: none">Cable Connector Socket 6 PinCable Connector Socket 10 Pin	-	-
AC Interface Connector	3 pin Connector	-	-
TTL Enable / Disable	Toggle Switch	-	-

Protection & Monitoring Parameters

Item	Specifications for Activation	Remark
TTL Enable/Disable	Yes	TTL option available in Toggle Switch
High Temperature Shutdown	Yes	
Reverse Power Protection	Yes	

MEC Electronics & Communication Pvt. Ltd

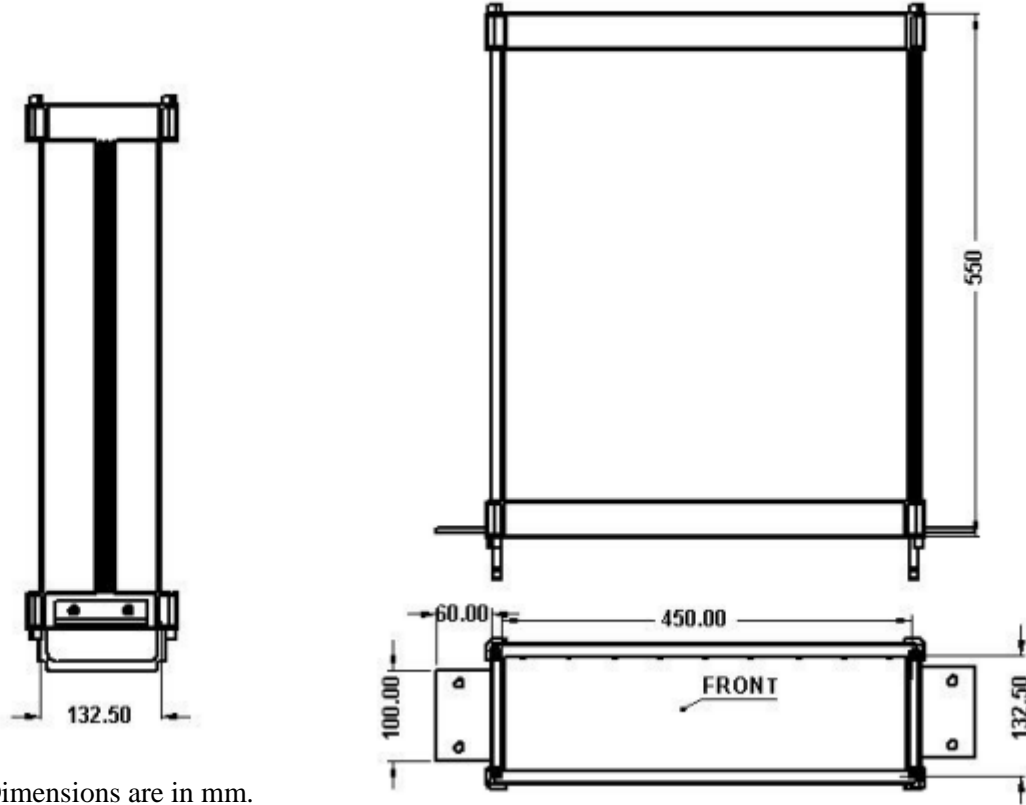
BT3, Flat No.3, 3rd Floor Block B.Mid City Apartment Near Fazaia Colony, Islamabad
Ph#:051-8891502, Email: info@mec.org.pk, Website: www.mec.org.pk

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Mechanical Drawing



Note: All Dimensions are in mm.