

Model: TPA5.85G7.075G-75-58-BC

Solid State High Power Amplifier Systems 5.85-7.075GHz, Gain: 75dB, Psat: 58 dBm, 220V AC

Feature:

- Wide Band: 5.85-7.075GHz
- Gain: 75dB Typ
- Psat Output Power: 58dBm Typ
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	5.85-7.075			GHz
Power Gain@Pout=57dBm	GP	70	75		dB
Gain flatness	Δ GL			± 3	dB
Output Psat	Psat	57	58		dBm
Pout adjust range	Padj	20			dB
Gain stability@24h	Gstb			± 0.25	dB
Gain fluctuation@-40~+55°C	Gvrt		± 2		dB
Gain slope	Gslp			± 0.02	dB/MHz
Spurious@Pout=57dBm	Spur			-60	dBc
2nd Harmonics	HAM			-20	dBc
Input VSWR	VSWRin		1.3	1.5	:1
Output VSWR	VSWRout		1.3	1.5	
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss	2200@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

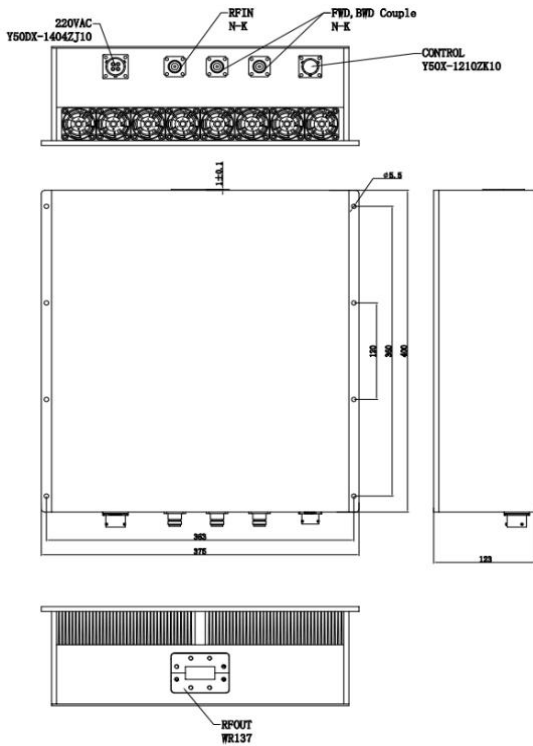
Parameter	Value	Units
Input /Output Connector	N Female/WR137	
Forward/Reverse Coupling	N Female/N Female	
Size	375*400*123	mm
Weight	≤ 38	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control
Monitor functions	1, Temperature 2, Voltage 3, Current 4, Output/Reverse Power
Remote control	RS422/RS485
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+55	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA5.85G7.075G-75-58-BC	Solid State High Power Amplifier Systems 5.85-7.075GHz,Gain:75dB,Psat:58 dBm,220V AC,Built in Fan Cooling	Rev.1.0