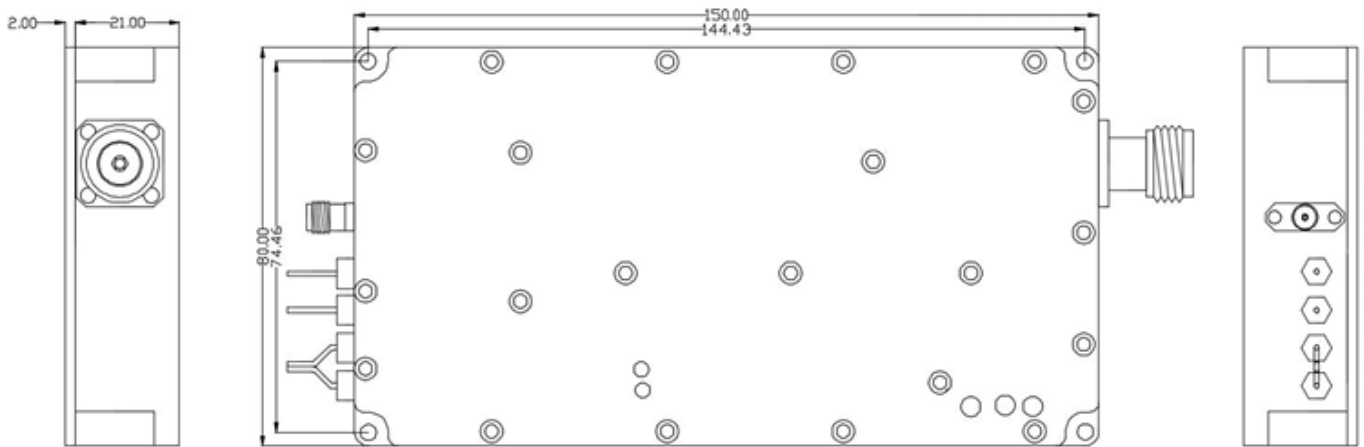


RF DATA

| ITEM | | SPECIFICATIONS | REMARKS |
|----------------------------------|---------------------|-----------------------------------|--|
| Frequency Range | | 1240-1325M | Bandwidth Range \pm 10MHz |
| Working Voltage | | 28V | 24-30V |
| INput Power (Max) | | \leq 10dBm | |
| Output Power (Max) | | \geq 50 dBm | 100W |
| Gain (Max) | | 50 \pm 1dB | |
| Ripple in Band | | \leq 3 dB | Peak |
| Enable Control | | Customize | 3-28V |
| EN switch frequency | | 10000 times | Switching time interval \geq 3S |
| Output VSWR | | \leq 2 | |
| High Low Temperatu re Test | Working Temperature | -20 \sim +65 $^{\circ}$ C | Working properly |
| | Gain Stability | \pm 1 dB | At -20 $^{\circ}$ C \sim +55 $^{\circ}$ C |
| | Power Stability | \pm 1 dB | At -20 $^{\circ}$ C \sim +55 $^{\circ}$ C |
| Working Current | | \leq 8A @+28V dc; | CW output 100W |
| Power Supply Port | | Positive and negative lines | 24-28V; GND |
| RF Output Connector | | SMA-Female | |
| Green LED Indicator Light | | CD Power ON/OFF | It lights up when the power supply voltage is present and turns off when the power is switched off. |
| Blue LED Indicator Light | | RF Power ON/OFF | It turns off when the output power is below 5–10 dBm, and turns on when the output power is within the normal range. |
| Red LED Indicator Light | | Temperature alarm indicator light | When the temperature exceeds 100 $^{\circ}$ C, it lights up but does not turn off the PA. |

| | | |
|------------------------|--------------|---|
| Working Life | 10000 hours | The chamber temperature during operation shall not exceed 65°C. |
| Dimension | 150*80*23 mm | |
| Installation Dimension | 144*74*18 mm | |
| Screw Size | 4-Ø3.20 mm | |
| Weight | 590g | |



The red box indicates the location of the low-level amplification tube, which is the main heating area with a heat generation of approximately 50-60W

The cavity uses copper blocks for heat conduction, evenly transferring heat to the aluminum cavity

Note that when the red LED lights up, check if there are any issues with the heat dissipation, if the screws securing the PA are tightened, and if the PA and heat sink are coated with heat dissipation silicone grease

Technical Solution :

