

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 47 dBm	50W
Gain (Max)		47 \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 4.5A @+28V dc;	CW output 50W
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	117*58*18 mm	
Installation Dimension	112*53*18 mm	
Screw Size	4-Ø3.20 mm	
Weight	230g	

ZCS7.071.214

Technical Requirements:

- The outer surface of the cavity shall be machined by numerical milling, and there shall be no defects such as scratches, scrapes, or bumps during the machining process;
- Linear dimensional tolerances not specified shall follow GB/T 1804-2000. f, and flatness tolerances not specified shall follow GB/T 1184-1996. k;
- The depth of the holes is calculated based on their respective planes;
- The roughness of all holes is, and the chamfer of other threads is C0.1~C0.2;
- As shown in the figure, laser engraving is performed on the blue font, which is in bold font with a height of 2.5;
- For other unspecified details, please refer to the 3D model file KW7.072.214_ amplifier cavity. step;

100-200-400W50WDC-DC尺寸图
800-850, 1400-1500,2400-2500W DC-DC尺寸图
1500-1800-2000-2500-2700W50WDC-DC尺寸图

		Plating coating	Sandblasting natural color conductive oxidation
V1.0	mark signature date	Product Outline Dimensional Drawing	
design	review	2A/12T4 GBT6893-2000	
workmanship	Quality	ZCS7.071.214	
standardization	approve	C	1:1
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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:

