



JA95009900P56; 9.5–9.9 GHz 400W AMPLIFIER

- Solid-state Class AB design
- Suitable for Pulsed Waveforms
- High reliability and ruggedness
- Forward/Reflected Power & Temp. Monitoring
- Open/Short Load Full Protection
- Fast Switching Capability

ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

Frequency:	9500 - 9900 MHz
Output Power:	400W typ., 300W min. pulsed (10% duty, 10µs width)
Nominal Gain:	56 dB
Gain Flatness:	± 1 dB (Large Signal)
Input VSWR:	2:1 max.
Load VSWR Survival:	∞:1 max.
Spurious / 2nd&3rd Harm:	< -60 dBc / < -30 & -40 dBc
DC Supply Voltage:	48 VDC
DC Power:	< 300W avg.
Enable Speed:	4 µs max.
Operating Case Temp.:	-40 °C to 71 °C
Storage Temperature:	-40 °C to 85 °C
Shock:	MIL-STD-810F/G
Vibration:	MIL-STD-810F/G

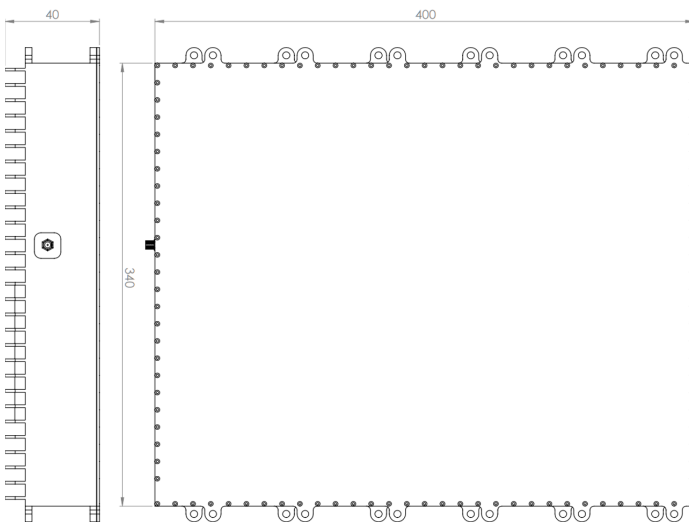
INTERFACES

RF Input:	SMA Female
RF Output:	SMA Female
Control:	1) GND 2) RF Enable 3) Forward Power 4) Reverse Power 5) I2C CLK * 6) I2C DATA * 7) GND 8) GND 9) GND
Power:	1) DC INPUT 2) DC INPUT 3) DC RETURN 4) DC RETURN

* I²C is for temperature monitoring

MECHANICAL SPECIFICATIONS

Size (mm) :	340 x 400 x 40
Weight :	10.000 gr.
Plating :	Yellow Chromate



GENERAL DESCRIPTION

RFTR's JA95009900P56 is a reliable 400W power amplifier operating between 9500-9900 MHz and suitable for Pulsed waveforms with 10% duty cycle, 10 µs pulse width. This amplifier can be used in different applications in X band. JA95009900P56 offers forward and reverse power monitoring. I²C interface is also available for temperature monitoring. The PA can be enabled/disabled as fast as 4 µs that makes it suitable for power saving during pulsed applications.

JA95009900P56 is designed with the components that do not require any export license.

Harmonic filtering and switching units can be added optionally to the module with an acceptable power degradation.