

P/N: AMT-SPA-2527-80

1- Introduction

This power amplifier is a module that be integrated in an impact case. It has ability to be controlled and send its status by a serial port (RS422-Full Duplex). Module has full protection against over VSWR, over temperature, and etc.

2- Specifications

Row	parameter	value
1	Frequency range	2500-2700MHz
2	Signal type	CW, FM, AM, FSK, QPSK, OFDM
3	Output power Saturation	>49dBm (CW)
4	Output ripple	±1dB
5	Power adjusting Range	0.25dB
6	Input power level	0dBm
7	Input return loss	-12dB
8	Harmonics	-30dBc
9	Spurious signals	-60dBc
10	Operating voltage	+28V DC
11	Efficiency	>38%
12	Input and output RF Impedance	50Ω

3- Mechanical specification

Row	parameter	value
1	Dimension (WxDxH)	160x100x20mm
2	Weight	0.6 Kg maximum
3	RF connector input	Type-SMA, Female
4	RF connector output	Type-SMA, Female
5	Data & Power Connector	In one Connector (7W2)
6	Cooling	External heatsink, not supply

4- Environmental characteristics

Row	parameter	value
1	Operating temperature	-30~+55°C
2	Non- operating temperature	-40~+75°C

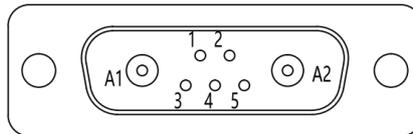
5- Protections

Row	parameter	value
1	Input overdrive	Diode limiter protection
2	Reverse RF power	VSWR>4 : error (output off)
3	Temperature	T>85°C : error (output off)
4	Short and open of RF Output	Shutdown

6- Communication interfaces

Row	parameter	value
1	RS-422	Serial management of Module
2	Interface Protocol	Reference "RS422 protocol"
3	Module Output Data	Forward & Reverse Power, Temp, Current
4	Module Input Data	Output Desired Power, Standby, Reset.

Connector of power supply and control, 7W2 (DA-7PZ-2dZ)



PIN	FUNCTION	SIGNAL
A1	Power Supply	+28V
A2	GND	GND
1	RS422	RS422-TX+
2	RS422	RS422-TX-
3	RS422	RS422-RX+
4	RS422	RS422-RX-
5	GND	GND

7- Dimensions
