

Linwave SSPA 2.2-6.0GHz, 50W Amplifier

LW10-793078

PRODUCT FEATURES

- 2.2 to 6.0 GHz Operating band
- 50W Power (CW)
- Suitable for CW, AM, and FM (Consult factory for other modulation types)
- Small and lightweight
- 50 ohm input/output impedance
- High reliability and ruggedness
- Built-in control, monitoring and protection circuits
- RS232 serial interface for monitoring and control



PRODUCT DESCRIPTION

Linwave Technology is pleased to introduce a 2200 to 6000 MHz amplifier which is guaranteed to deliver 50W minimum output power and related RF performance under all specified temperature and environmental conditions. This amplifier is suitable for broadband mobile jamming and band specific high power linear applications in the S and C frequency bands. This compact module utilizes the latest high power RF GaN transistors and also features built in control and monitoring, with protection functions to ensure high availability.

Linwave reserves the right to make changes, without notice, in the products, including circuits, standard cells, and/or software, described or contained herein in order to improve design and/or performance.

Data sheet Iss 01, dated 01/03/16 DS0-793078-01, No. 2152

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ELECTRICAL SPECIFICATIONS @ 25°C, 50 Ω System

Parameter	Min	Typ	Max	Unit
Operating Frequency	2.2		6.0	GHz
Saturated Output Power	-	50	-	Watts
Power Gain Flatness	-	+/- 2	-	dB
Input Power for rated Psat	-	0	-	dBm
Input Return Loss	-	-	-10	dB
Operating Voltage	-	28	32	V

MONITORING AND CONTROL SIGNALS

Monitoring and control signals are available via D-Sub and can be manipulated by RS232 interface or via analog signal pins.

Signal	Description	Type
Enable/Disable	To enable or disable the module '1' = Enable '0' = Disable	Control
Temp. Sense	Provides the Hotspot temperature Analog = 10mv/°C Digital via RS232 = in °C	Monitoring
Fault alarm	Provides self-reset latched fault alarm	Monitoring
Fault override	In case of fault SSPA shall be disabled automatically, however it can be overridden by this signal. '1' = Enabled '0' = Disabled	Control

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Min	Typ	Max	Unit
Operating Case Temperature	-40		+85	deg C
Storage Temperature	-40		+85	deg C
Altitude			9144	m
Relative Humidity (non-condensing)			95	%

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	205 x 165 x 25	mm	Max
Weight	1600	grams	Max
RF Connectors	Input : SMA-F Output :SMA-F		
DC Interface Connector	Hybrid-D-Sub		
Cooling	External Heatsink Required- Not Included		

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