

PA1028 2500 – 2700 MHz / 16 Watts

**SUNGSAN**

Electronics & Communications Co., Ltd.

ELECTRICAL SPECIFICATIONS @ +28 V_{DC}, 25 °C, 50 Ω System

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Operating Frequency		F _{BW}	2500		2700	MHz
Output Power	CW	P _{SAT}	16			Watt
Output Power	P _{1dB}	P _{1dB}		10		Watt
Power Gain		G _P	42			dB
Gain Flatness		ΔG			±1.0	dB
Input Power	P _{SAT}	P _{IN}		0		dBm
Input Return Loss		S ₁₁			-10	dB
Third Order Intercept Point		IP3		+40		dBm
Harmonics	2 ND / 3 RD @ P _{OUT} = 16 Watts	H			-25	dBc
Spurious Signals		S _{PUR}			-60	dBc
Operating Voltage		V _{DC}		28		Volt
Current Consumption	P _{OUT}	I _{DD}			3.0	Amp

ENVIRONMENTAL CHARACTERISTICS

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Operating Case Temperature		T _C	0		+50	°C
Storage Temperature		T _{STG}	-20		+85	°C
Relative Humidity	Non-condensing	RH			95	%

LIMITS

Parameter	Condition	Specifications	Unit
Input RF Drive Level	No Damage	Max +5	dBm
Thermal Overload	Shutdown	Max +65	°C

MECHANICAL SPECIFICATIONS

Parameter	Condition	Specifications	Unit
Dimension	W x D x H	170 x 90 x 25.4	mm
Weight		TBD	Kg
RF Connector Input		SMA (Female)	
RF Connector Output		SMA (Female)	
DC Connector		D-Sub, 9 Pin (Male)	
Cooling	Not Supplied	External Heatsink	

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INTERFACE CONNECTOR – D-Sub, 9 Pin, Male

Pin #	Description	Specifications
1	Forward	Continuous Analog voltage relative to Forward power level 0 – 5 V (200 mV / dB)
2	Reverse	Continuous Analog voltage relative to Reverse power level 0 – 5 V (200 mV / dB)
3	ALC ON/OFF	ALC ON = TTL Logic Low (0 V) (Internally Pulled-high)
4	ALC Level Remote	Continuous adjustable range via analog input levels Setting Point (ASP) : 30 – 42 dBm @ 0 – 5 V (300 mV / dB) Error Range (AER) : ± 1.5 dB Response Time (ART) : 100 mS / dB
5	Mute	Amplifier Disable : TTL Logic High (5 V) (Internally Pulled-Low)
6, 7	VDD	+28.0 V _{DC} ± 2 V
8, 9	GND	Ground

OUTLINE DRAWINGS

