

M0405GP25 400 – 520 MHz / 25 Watts

ELECTRICAL SPECIFICATIONS @ +28 VDC, 25°C, 50 Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	400		520	MHz
Output Power CW	P _{SAT}	25	30		Watt
Output Power @ 1dB Gain Compression	P _{1dB}	15	20		Watt
Power Gain 1dB Gain Compression	G _{1dB}	44			dB
Input Power for Rated P _{SAT}	P _{IN}		0		Watt
Gain Flatness	ΔG		±0.75	±1.0	dB
Input/Output Return Loss	S ₁₁ / S ₂₂			2:1	-
Noise Figure	NF		7	10	dB
Harmonics @ POUT = 25W	H		-20		dBc
Third Order Intercept Point 2-Tone @ 34dBm/Tone, 100kHz Spacing	IP3		+50		dBm
Spurious Signals	Spur		-70	-60	dBc
Operating Voltage	V _{DC}	26	28	32	Volt
Gate switch time	I _{DD}			4.0	Amp

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit	Limits	
Operating Case Temperature	T _c	0		+50	°C		
Storage Temperature	T _{STG}	-40		+85	°C		
Relative humidity (non-condensing)	RH	95			%		
Altitude (MIL-STD-810F Method 500.4)	ALT	10,000	30,000		Feet		
Vibration/Shock MIL-STD-810F Method 514.5/516.5 – Proc I	VI/SH	Airborne					

LIMITS

Parameter	Value	Limits
Input RF drive level without damage	+10 dBm	Max
Load VSWR @ Pout = 20W	Infinite @ all load phase and amplitude	Nom
Thermal Overload	85°C shutdown	Max

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	6.0 X 3.0 X 1.0	Inch	Max
Weight	1.0 / 2.5	lb.	Max
RF Connectors In/Out	SMA female		
DC / Shutdown	Feed Thru		
Cooling	External Heatsink		

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Outline Drawing

