

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	800		970	MHz
Output Power CW	P _{SAT}	200			Watt
Output Power @ 1dB Gain Compression	P _{1dB}	150			Watt
Power Gain 1dB Gain Compression	G _{1dB}	53	54		dB
Input Power for Rated P _{SAT}	P _{IN}		0		Watt
Gain Flatness	ΔG			±1.0	dB
Input /Output Return Loss	S ₁₁ / S ₂₂			2:1	-
Harmonics @ P _{OUT} = 25W	H			-30	dBc
Third Order Intercept Point 2-Tone @ 34dBm/Tone, 100kHz Spacing	IP3		-70	-60	dBm
Spurious Signals	Spur			2	dBc
Turn On Time	T _{ON}			2	Sec
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	-30		+55	°C		
Storage Temperature	T _{STG}	-40		+60	°C		
Relative humidity (non-condensing)	RH	100			%		
Altitude (MIL-STD-810F Method 500.4)	ALT	15,000	40,000		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	+20dBm no damage	Max
Load VSWR @ P _{out} = 20W	Infinite @ all load phase and amplitude	Nom
Thermal Overload	85°C shutdown	Max

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	15.85 X 8.11 X 1.45	Inch	Max
Weight	10	lb.	Max
RF Connectors In/Out	SMA female / Type-N female		
DC / Shutdown	COMBO D-Sub, P/N CBM13W6F2000		
Cooling	External heatsink / Air-flow		

CONNECTOR- Hybrid D-Sub

Pin #	Description	Specifications
A1, A2, A3	+13VDC (Input)	Range: ± 0.5 VDC
A4, A5, A6	GND (Input)	Housing Ground
1	+VDC Sense Line (Output)	Connected to A1, A2, A3
2	TX-Enable (Input)	OPEN = Disable CLOSE = Enable
3	FWD PWR DET (Output)	4V @ 200W
4	REV PWR DET (Output)	4V @ 200W
5	-VDC Sense & GND (Output)	Connected to A4, A5, A6
6	Signal GND (Output)	Ground
7	HIGH-TEMP (Output) - Open Collector	Tb > 75°C = OPEN Tb < 75°C = CLOSE

Outline Drawing

