DCS 1800M 200W MCPA Specification (PAD18200DDA)

1. *Electrical specifications*

No.	Parameter	Specification	Unit	Remark
1.1	Signal	DCS		
1.2	Testing rule	CW signal, 4 carriers, carrier spacing 600K	dB	
1.3	Frequency range	1805～1880	MHz	
1.4	Output power	53.5±0.5	dBm	
1.5	Output power versus temperature	±1 @-40℃～+55℃	dB	
1.6	Gain	50±1.0	dB	
1.7	Gain adjusting range	≥30	dB	Digital attenuator
1.8	Gain adjusting step	1	dB	Digital attenuator
1.9	Gain variation versus frequency	≤1	dB	
1.10	Gain variation versus temperature	±2 @-40℃～+55℃	dB	
1.11	IMD (intermodulation)	≤-62	dBc	CW signal, 4 carriers, carrier spacing 600K
1.12	DCS EVM @Pout=53dBm	< 2% @ above source own EVM		
1.13	ALC range	≥15	dB	
1.14	Allowable maximum input power	≥10	dBm	
1.15	VSWR	Input≤1.5		
		Output≤1.5		
1.16	DC power supply	≤25	A	
1.17	DC supply current	27~29	V	

2. Environmental Specifications

No.	Parameter	Condition
2.1	Operating Temperature	-25 °C to +80 °C at location
2.2	Storage Temperature	-40 ℃ to +85 ℃ ambient
2.3	Cold Start	-40 ℃
2.4	Operating Humidity	5% to 95% relative humidity, non-condensing
2.5	Storage Humidity	5% to 95% relative humidity, non-condensing

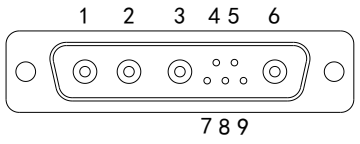
3. Monitoring & control

No.	Parameter	Description	Remarks
3.1	Serial bus	RS485	
3.2	Reading parameters	Input power, output power, reverse power, VSWR, temperature, ALC level, digital attenuation	
3.3	Setting parameters	Digital attenuation, ALC level,	
3.4	Alarm	High temperature, output power overload, VSWR, PA fault	

4. Mechanical specifications

No.	Parameter	Description	Remarks
4.1	Dimensions[L×W×H]	459×349×88.5 mm^3	
4.2	Weight	15Kg	
4.3	Mounting	Lead rail, 2 M4 screws	
4.4	DC power supply/control connector	9W4(male)	
4.5	Input connector	SMA (female)	
4.6	Output connector	N (female)	
4.7	Mark	Show information: power supply, ground, input port, output port, serial number, description etc	
4.8	Surface finish	Sandblast	

5. Interface specification

Connector		Pin description		
Power supply/control connector (9w4)		Pin1:28V	Pin2:28V	Pin3:Ground
		Pin4:RS485A	Pin5:RS485B	Pin6:Ground
		Pin7:Ground	Pin8:NC	Pin9:NC

6. Outside drawing