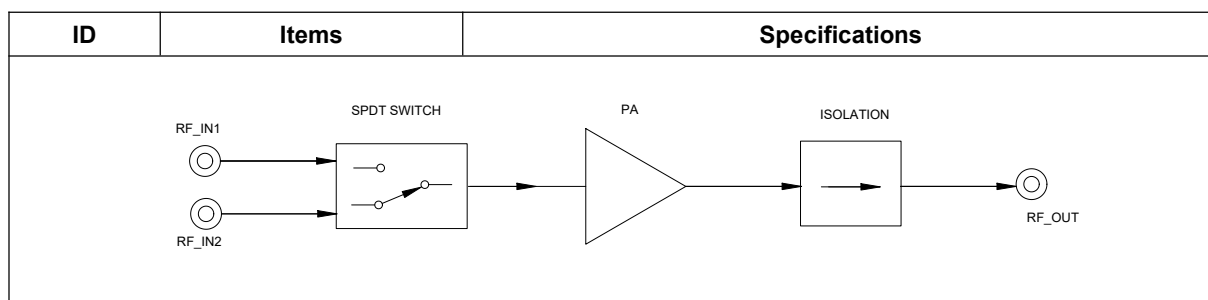


HXPA6881G-100W Power Amplifier

1.Functional Block Diagram



2.Description

ID	Items	Specifications
2-1	Type	Power Amplifier
2-2	Frequency Range	6.5~7.0GHz
2-3	Gain	≥60dB
2-4	Gain Flatness	≤±0.6dB Typical
2-5	Saturated Output Power (Psat)	≥50dBm
2-6	Output 1dB Compression Point(P1dB)	/
2-7	Impulse Response	≤50ns (rising edge, descending edge)
2-8	Switch Isolation	≥90dB
2-9	Switching Speed	≤200ns (rising edge, descending edge)
2-10	Input VSWR	≤1.6
2-11	Isolation S12	≥60dB
2-12	Spurious	≤-60dBc
2-13	Harmonics	-15dBc Typical
2-14	Noise Figure	/
2-15	Impedance	50Ω
2-16	Input/ Output Connectors	SMA-F
2-17	Control Connector	DB9-Male
2-18	DC Power Supply	+28V/≤1.5A
2-19	Efficiency @Psat	30% Typical

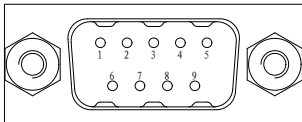
3.Absolute Maximum Ratings

ID	Parameter	Rating
3-1	Operating Voltage	+28V ~ +30V
3-2	RF Input Power	≤5dBm
3-3	Include voltage protection, current protection and temperature protection	

4.Environmental Specifications

ID	Items	Specifications
4-1	Application Environment	CW/PL
4-2	Operational Temperature	-40°C ~ +70°C
4-3	Storage Temperature	-40°C ~ +70°C

5.Interface

ID	Items	Specifications
5-1	Control Connector	DB9-Male
		
5-2	NO	Specifications
	1, 2, 3	28V/DC
	4, 5, 6	GND
	7	T1(0 ~ 0.8V=0/3.3 ~ 5V=1)
	8	T2(0 ~ 0.8V=0/3.3 ~ 5V=1)
	9	TTL3(0 ~ 0.8V=OFF/3.3V ~ 5V=ON)

6.Truth Table

ID	T2	T1	TTL3	Conduction status
6-1	0	0	0	Close all channels, power on default state
	0	1	1	RF_IN1→RF_OUT On
	1	0	1	RF_IN1→RF_OUT On

7.Outline Drawing

ID	Items	Specifications
7-1	Outline Drawing	Unit: mm
Tolerances:±1mm		

