

Band-Specific High Power Amplifier

Product Name: RCA2600H48D1

Doc. Name: Preliminary Short Spec.

<p>Preliminary Short Specification for RCA2600H48D1</p>
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2016/10/4	2016/10/6		A	RFcore co.,Ltd
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The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

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Band-Specific High Power Amplifier

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc ≅ 35 °C
Parameter	Specification	Remark
Frequency Range	2620 ~ 2690 MHz	
Rated Output Power	48 dBm min. @ CW	40 dBm min. @ 10 MHz LTE signal
Gain	39 ± 1.0 dB	Pin = -10 dBm to 8 dBm @ CW, In band
Gain Flatness	2.0 dB p-p	In band
Gain Stability	± 1.0 dB	Over Temp.
Input Power for rated output power	10 dBm typ. @ CW	2 dBm for 10MHz LTE Signal
Maximum input power for no damage	20 dBm @ CW	
ACLR ± 10 MHz for 1FA	40 dBc min.	Single carrier LTE, 3GPP Test Model E-Test Model 1.1, 50RB 10MHz, PAR = 9.6 dB @ 0.01% Probability on CCDF
ACLR ± 20 MHz for 1FA	50 dBc min.	
ACLR ± 10 MHz for 2FA	25 dBc min.	Multi-carrier LTE, 3GPP Test Model E-Test Model 1.1, 50RB 10MHz, PAR = 11.8 dB @ 0.01% Probability on CCDF
ACLR ± 20 MHz for 2FA	35 dBc min.	
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	Built in Isolator
Maximum load VSWR for amplifier survival	Infinite, all phase	
DC Input Voltage for 28VDC	28 ± 1 Vdc	
DC Current Consumption for 28VDC	8 A max. 6A typ.	

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Interface Pin Description		
Connector	Description	Specification
D-Sub 9Pin Male	1. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature ± 5°C
	2. Forward Power Monitor	Logarithmic detector
	3. GND	
	4. Reflected Power Monitor	Diode detector
	5. N.C	
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable (Active low)	pulled-up@5V with 10KΩ

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 °C	
Storage Temperature	-40 ~ 85 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	135 x 100 x 25 mm	
Weight	Less than 630 g	
RF Input / Output Connector	SMA – Female(2H)	
I/O Interface connector	D-SUB 9pin male	

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