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5 August 2022

Richardson RFPD, Inc.
1950 S. Batavia Ave, Suite 100
Geneva, Illinois 601345 August 2022

ATTN: Quality/Purchasing Manager

Subject: XX1000-BD-000V Datasheet Correction

PCN #: PCN-01569

Dear Valued Customer:

The goal of MACOM Technology Solutions is to continually deliver high quality products and services that meet our customers' needs. We strive to offer products that are industry leading in terms of performance, delivery, safety and value.

In accordance with these goals, this communication is to inform you that MACOM is making a correction to the following product's datasheet.

XX1000-BD-000V

The typical operating supply current has been changed from 265mA to 210mA and the maximum supply current specification has been removed. Additionally, a note has been added to describe how to measure the supply current. Details of the change are on the following pages.

There are no changes to design, form, fit, function, or reliability associated with this change.

Please contact your local sales representative if you have any questions or require additional information.

Sincerely,

Michael O'Driscoll
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MACOM
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XX1000-BD Current Rev V3 Datasheet

Electrical Specifications: Input Freq. = 7.5 - 25 GHz, T_A = 25°C

Parameter	Units	Min.	Typ.	Max.
Output Frequency Range	GHz	15	—	50
Input Return Loss	dB	—	12	—
Output Return Loss	dB	—	12	—
Harmonic Gain	dB	—	13	—
Fundamental Rejection	dBc	—	20	—
Saturated Output Power	dBm	—	15	—
RF Input Power	dBm	-10	—	+10
Output Power at 0 dBm P_{IN}	dBm	—	13	—
Drain Bias Voltage (V_D1,2)	VDC	—	5.0	5.5
Gate Bias Voltage (V_G1)	VDC	-1.2	-0.6	+0.1
Gate Bias Voltage (V_G2)	VDC	-1.2	0.0	+0.1
Drain Current (I_D1,2) (V_D = 5.0 V, V_G1 = -0.6 V, V_G = 0 V Typical)	mA	—	265	280
Source Voltage (V_{SS})	VDC	-5.5	-5.0	-2.0
Source Current (I_{SS})	mA	25	50	60

XX1000-BD New Rev V4 Datasheet

Electrical Specifications: Input Freq. = 7.5 - 25 GHz, T_A = 25°C

Parameter	Units	Min.	Typ.	Max.
Output Frequency Range	GHz	15	—	50
Input Return Loss	dB	—	12	—
Output Return Loss	dB	—	12	—
Harmonic Gain	dB	—	13	—
Fundamental Rejection	dBc	—	20	—
Saturated Output Power	dBm	—	15	—
RF Input Power	dBm	-10	—	+10
Output Power @ 0 dBm P_{IN}	dBm	—	13	—
Drain Bias Voltage (V_D1,2)	VDC	—	5.0	5.5
Gate Bias Voltage (V_G1)	VDC	-1.2	-0.6	+0.1
Gate Bias Voltage (V_G2)	VDC	-1.2	0.0	+0.1
Quiescent Drain Current (I_D1,2) (V_D = 5 V, V_G1 = -0.6 V, V_G = 0 V Typical)[2]	mA	—	210	—
Source Voltage (V_{SS})	VDC	-5.5	-5.0	-2.0
Source Current (I_{SS})	mA	25	50	60

2. Adjust V_G1 to set 70 mA I_{DQ}1, adjust V_G2 to set 140 mA I_{DQ}2.