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Partners from RF to Light

October 20, 2025

Richardson RFPD, Inc.
1950 S. Batavia Ave, Suite 100
Geneva, Illinois 60134

ATTN: Quality/Purchasing Manager

Subject: PCN-01995 MADT-011000 Datasheet Change

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 this goal, this communication is to inform you that MACOM Technology Solutions is updating the MADT-011000 datasheet (details on the following pages). You are receiving this notification because you have purchased one or more of the following parts in the past two years.

MADT-011000-DIE
MADT-011000
MADT-011000-TR1000
MADT-011000-TR3000

There are no changes to fit, form, function, or reliability associated with this change. Due to a change in process mandated by the external foundry used, the specified maximum Vdelta has increased to 2500 mV from 2200 mV.

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

Sincerely,

John Fenton

MMICs Product Manager
MACOM Technology Solutions, Inc.

Email: john.fenton@macom.com

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Current MADT-0011000 Datasheet Rev. V1

MADT-011000

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Power Detector
5 - 44 GHz Rev. V1

Electrical Specifications: Freq. = 5 - 44 GHz, T_A = +25°C, V_{DC} = 4.5 V, Z_0 = 50 Ω[5]

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Input Power	—	dBm	-15	—	+15
Dynamic Range	Vref - Vdet > 5 mV	dB	30	—	—
Vdelta	Vdelta = Vref - Vdet Input power = -15 to +15 dBm	mV	5	—	2200
Return Loss	5 - 10 GHz 10 - 12 GHz 12 - 36 GHz 36 - 44 GHz	dB	—	-11 -11 -15 -18	-9 -9 -9 -13
Supply Voltage	—	V	—	4.5	—
Current Consumption	—	µA	60	70	80

5. All specifications refer to CW input signal.

New MADT-0011000 Datasheet Rev. V2

Power Detector
5 - 44 GHz

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MADT-011000
Rev. V2

Electrical Specifications: Freq. = 5 - 44 GHz, T_A = +25°C, V_{DC} = 4.5 V, Z_0 = 50 Ω[5]

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Input Power	—	dBm	-15	—	+15
Dynamic Range	Vref - Vdet > 5 mV	dB	30	—	—
Vdelta	Vdelta = Vref - Vdet	mV	5	—	2500
Return Loss	5 - 10 GHz 10 - 12 GHz 12 - 36 GHz 36 - 44 GHz	dB	—	-11 -11 -15 -18	-9 -9 -9 -13
Supply Voltage	—	V	—	4.5	—
Current Consumption	—	µA	60	70	80

5. All specifications refer to CW input signal.