

7.7 ~ 8.5 GHz Low Noise Power Amplifier

Key Features:

Broad Frequency Range:	7.7 ~ 8.5 GHz
High Gain:	48 dB
High P1dB:	31 dBm (typ.)
High OIP3:	40 dBm (typ.)
Single DC Supply:	+10V @ 700mA
I/O port:	Pins
Package:	Drop-in module

Photo not available

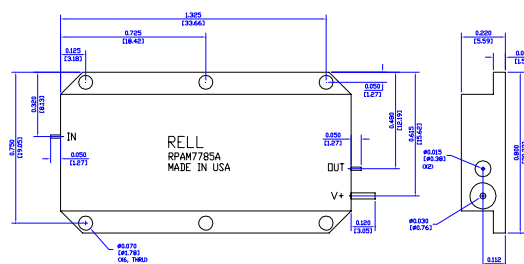
Electrical Specifications¹: (at +25°C)

Testing Item	Symbol	Test Conditions	Min	Nom	Max	Unit
Frequency Range	BW		7.7		8.5	GHz
Gain	S ₂₁	7.7 ~ 8.5 GHz	46	48		dB
Gain Flatness	ΔG	7.7 ~ 8.5 GHz		+/-1.0		dB
VSWR (Input/Output)		7.7 ~ 8.5 GHz		1.5:1	1.6:1	
Reverse Isolation	S ₁₂	7.7 ~ 8.5 GHz		50		
Noise figure	NF	7.7 ~ 8.5 GHz		2.5	3.0	dB
Power at 1dB Gain Compress	P1dB	7.7 ~ 8.5 GHz	30	31		dBm
Output Third Order Intercept Point	OIP3	7.7 ~ 8.5 GHz	35	40		dBm
DC Voltage	Vd		+9.7	+10	+10.5	Volt
DC Current	Id	@ Vd=10V		700		mA
Operating Temperature			-40		+85	°C
Impedance				50		ohm

Absolute Maximum Ratings

Parameters	Ratings	Units
DC Power Supply Voltage	+12V	V
Drain Current	1.0	A
Total Power Dissipation	13	W
RF Input Power	10	dBm
Channel Temperature	150	°C
Storage Temperature	-55 ~ 125	°C
Operating Temperature	-40 ~ 85	°C
Thermal Resistance	13	°C/W

Outline Drawing (not scaled)



¹ Specifications are subject to change without notice.

Richardson Electronics

40W267 Keslinger Road

P.O. Box 393

LaFox, IL 60147

Telephone: (800) 737- 6937

(630) 208-3637

Fax: (630) 208-2550

Internet: www.rfwireless.rell.comE-Mail: rlc@rell.com**IMPORTANT NOTICE**

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