

Solid State Broadband High Power Pallet Amplifier 470-860 MHz, 200W (DVB-T Signal)



The RPAP470860M200 is a highly linear pallet amplifier designed for use in the UHF band. Utilizing the newest 50V Rugged RF LDMOS from Freescale Semiconductor, this pallet is ideal for systems broadcasting under the Digital TV standards. Superior performance is provided offering high gain, efficiency and power in a small pallet footprint using advanced broadband RF matching networks and RF LDMOS transistors. Matched for 50 ohms input and output, the pallet can be easily combined to provide higher power when required.



Key Features:

- 200W of Linear Power when driven by DVB signals
- 50 ohms input/output
- Built with Highly Rugged RF LDMOS technology
- Over temperature Protection
- Survives VSWR 3:1

Specifications: (Vsupply = +50Vdc, Idq = 2.80A, TBase = 25°C)

Parameter	Min	Nom	Max	Unit
Frequency	470		862	MHz
Gain		19		dB
Pout (DVB-T/DVB-H w/o Pre-correction -30dBc Shoulders)	180	200		Watts
Pout (ATSC DTV) w/o Pre-correction -40dBc from carrier	200	250		Watts
Pout (PEP)	600	800		Watts
Efficiency 200W DVB-T		26		%
Baseplate Operating Temp	0		+60	°C

Mechanical Dimensions

Dimensions: 133 x 98 x 26 mm, 5.25" x 3.85" x 1.0"

Utilize 8 pieces of M3 Screws with lock washers and flat washers to attach pallet to the external heatsink

Additional Notes:

- 1 – Proper heatsinking is required. Contact Richardson RFPD for possible recommendations.
- 2 – Proper shielding is required to isolate this high gain final stage from any driver stages used in the system.
- 3 – This unit is designed for Digital applications. If sustained CW performance is required above 300W, please contact Richardson RFPD for recommendations of other potential solutions.

Ordering Information

Part Number	RPAP470860M200
--------------------	----------------

Richardson RFPD, Inc.

40W267 Keslinger Road

P.O. Box 307

LaFox, IL 60147

Telephone: (800) 737-6937

(630) 208-2700

Fax: (630) 208-2662

Internet: www.richardsonrfpd.com**IMPORTANT NOTICE**

RICHARDSON RFPD, INC. AND ITS AFFILIATES RESERVE THE RIGHT TO MAKE CHANGES TO THE PRODUCT(S) OR INFORMATION CONTAINED HEREIN WITHOUT NOTICE. RICHARDSON RFPD, INC. ASSUMES NO RESPONSIBILITY FOR ANY ERRORS WHICH MAY APPEAR IN THIS DOCUMENT.

WARRANTY INFORMATION APPLICABLE TO THE PRODUCT IDENTIFIED HEREIN IS AVAILABLE UPON REQUEST. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A WARRANTY, REPRESENTATION OR GUARANTEE OF ANY KIND. RICHARDSON RFPD, INC. EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, AND OF FITNESS FOR A PARTICULAR PURPOSE, USE OR APPLICATION.

NO PART OF THIS DOCUMENT MAY BE COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN CONSENT OF RICHARDSON RFPD, INC.

WARNING

RICHARDSON RFPD, INC. PRODUCTS ARE NOT INTENDED FOR USE IN LIFE SUPPORT APPLIANCES, DEVICES OR SYSTEMS. USE OF A RICHARDSON RFPD, INC. PRODUCT IN ANY SUCH APPLICATION WITHOUT WRITTEN CONSENT IS PROHIBITED.