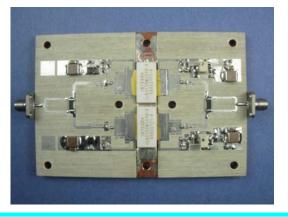
Part Number: ILP2731M260

S-Band Radar Pallet

Part number ILP2731M260 is a 50 Ω matched high power pulsed radar pallet amplifier for S-Band radar systems operating over the instantaneous bandwidth of 2.70-3.10GHz. The pallet amplifier supplies a minimum of 260 watts of peak pulse power under the conditions of 300us pulse width and 10% duty cycle. All units are 100% screened for large signal RF parameters.



TYPICAL DATA

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Freq (GHz)	V _{dd} (V)	P _{in} (W)	IRL (dB)	P _{out} Peak(W)	Gp I _D (dB) (A)		Droop (dB)
2.70	32.0	24.50	-15	318	11.14	28.54	-0.45
2.90	32.0	24.50	-20	317	11.13	27.94	-0.47
3.10	32.0	24.50	-13	280	10.58	23.13	-0.37
Pulse for	mat = 300µ	s, 10%					

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Silicon LDMOS

- Ultra-high f_T

Class AB Operation

- Total Bias Current < 300mA

Single Bias Voltage

 Operates with single 32V supply voltage. Gate Bias provided via voltage regulator.

Common Source Configuration

Gold Metal

- Maximum Reliability

Impedance Matched to 50Ω

Ease of Use

Pallet Carrier

- Nickel Plated Copper Carrier

Maintained

- 100% RF Screening
- No External Tuning Allowed

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RF ELECTRICAL CHARACTERISTICS

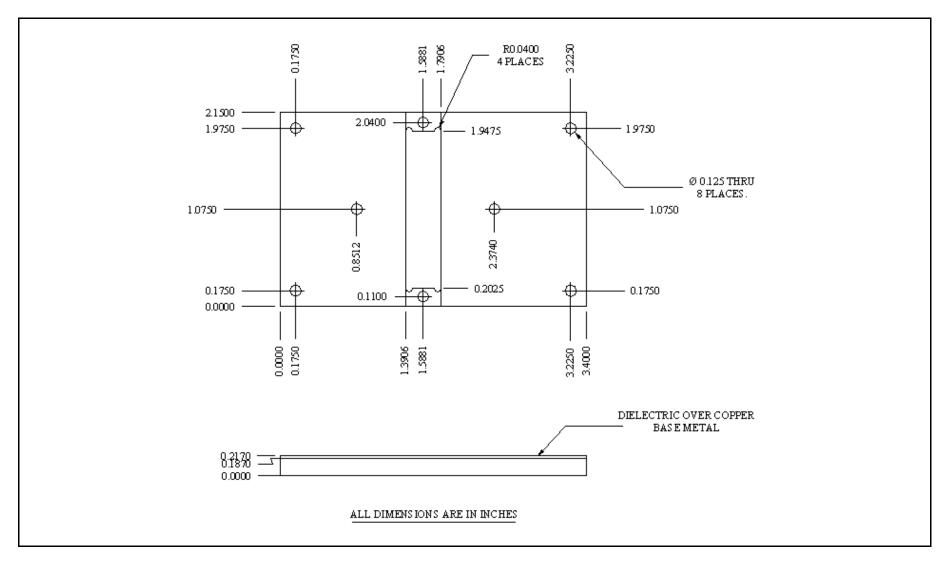
Screen	Parameter	Symbol	Min	Max	Units	Test Conditions
100%	Input Return Loss	IRL	9		dB	V_{bias} =32V, P _{IN} =24.50W, Pulse = Note 2, T _F =25±5°C, F=F1, F2, F3.
100%	Output Power	Pout	260		W	V_{bias} =32V, P _{IN} =24.50W, Pulse = Note 2, T _F =25±5°C, F=F1, F2, F3.
100%	Power Gain	G _P	10.25		dB	V_{bias} =32V, P _{IN} =24.50W, Pulse = Note 2, T _F =25±5°C, F=F1, F2, F3.
100%	Pulse Amplitude Droop	D	-0.7		%	V_{bias} =32V, P _{IN} =24.50W, Pulse = Note 2, T _F =25±5°C, F=F1, F2, F3.
Note 1	F1 = 2.70GHz, F2 = 2.90GHz, F3 = 3.10GHz					
Note 2	Pulse format = 300us, 10%					
Note 3	T_F = Device flange temperature.					
Note 4	Screen 'BD' = parameter qualified By Design.					

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PALLET DIMENSIONAL OUTLINE DRAWING



ILP2731M260 PRELIMINARY SPECIFICATION FILE: ILP2731M260-REV-PR1-DS-REV-NC Page 3 of 4 www.integratech.com PHONE: 310-606-0855 FAX: 310-606-0865 INTEGRA TECHNOLOGIES, INC. 321 CORAL CIRCLE EL SEGUNDO, CA 90245-4620

Part Number: ILP2731M260



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DEFINITIONS

Data Sheet Status	
Proposed Specification	This data sheet contains proposed specifications.
Preliminary Specification	This data sheet contains specifications based on preliminary measurements and data.
Product Specification	This data sheet contains final product specifications.
Maximum Ratings	
	imum ratings may cause permanent damage to the device. These are maximum ratings only and operation of the device at these or at any other haracteristics sections of the specification is not implied. Exposure to maximum values for extended periods of time may affect device reliability.

WARNING

Product and environmental safety - toxic materials

This product contains beryllium oxide. The product is entirely safe provided that the BeO base is not damaged. All persons who handle, use or dispose of this product should be aware of its nature and of the necessary safety precautions. After use, dispose of as chemical or special waste according to the regulations applying at the location of the user. It must never be thrown out with general or domestic waste.

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