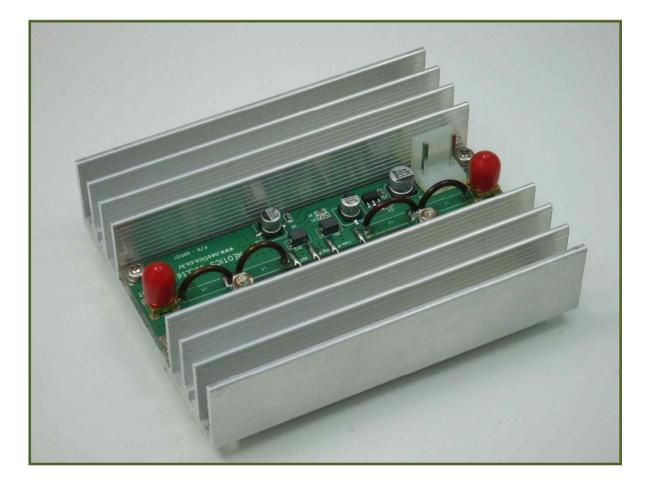


400MHz-470MHz RF Power Amplifier for Transmitter (Max 7W)

NR - A4047B Ver 7.0

Related Product : NC-A4047 (400MHz-470MHz RF Power Amplifier for Transceiver) NC-AMP500 (20MHz-500MHz RF Power Amplifier for Transmitter)





1. 400MHz-470MHz RF Power Amplifier for Transmitter (Max7W).

*This is a large output--max 7W--power amplifier for wireless transmission.

- *In case of long distance transmission being disabled due to weak radio waves or low power output, you can obtain maximum 7W with this amplifier.
- *You can refer to basic amplifier instructions such as accurate use of amplifier, circuit development, antenna pattern handling.
- *This amplifier can solve the problem of long distance transmission, powering up your transmitter products.

2. Features & Application.

- . Facilitates long distance transmission.
- . Reception/transmission convertible, applicable to transmitter as well as Transceiver.
- . Transmission mode when powered, reception mode when power cut.
- . Works as amplifier for transmitter only, depending on specifications.
- . High frequency relay is used for minor signal loss in transmission/reception conversion.
- . With LC-filter built in input/output section, you get less noise and better signal.
- . SMA connector for input/output decreases signal loss.
- . LED attached to power supply line indicates driver/final power supply state.
- . High amplification and rare noise, with the use of RF Module dedicated to amplifier.
- . Suitable for battery run devices as well, being able to work on low voltage. (5V~9V : out put varies depending on voltage)
- Amplification of transmitter under weak radio wave/low power output.

4. 400MHz-470MHz RF Power Amplifier Specification

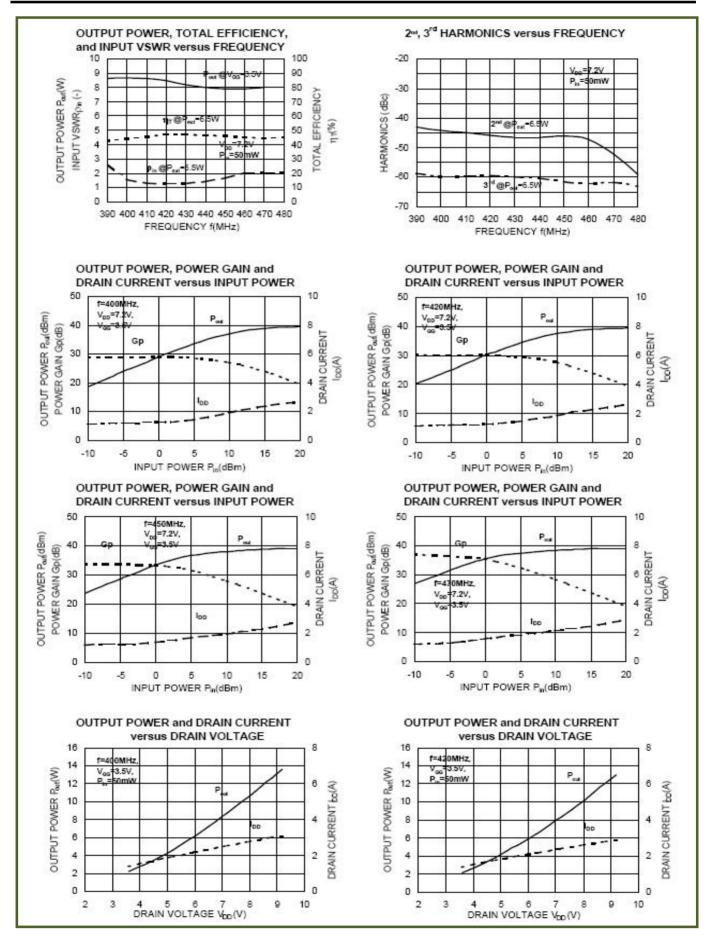
ELECTRICAL CHARACTERISTICS (Tcase=+25°C, ZG=ZL=50Ω, unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
f	Frequency Range		400		470	MHz
Pout	Output Power	V _{DD} =7.2V,V _{GG} =3.5V, P _{In} =50mW	7			w
ητ	Total Efficiency	P _{out} =6.5W (V _{GG} control), V _{DD} =7.2V, P _{In} =50mW	40			%
2f₀	2 nd Harmonic				-25	dBc
ρin	Input VSWR				4:1	-
I _{GG}	Gate Current			1		mΑ
_	Stability	V _{DD} =4.0-9.2V, P _{In} =25-70mW, P _{out} <8W (V _{GG} control), Load VSWR=4:1	No parasitic oscillation			_
_	Load VSWR Tolerance	V _{DD} =9.2V, P _{In} =50mW, P _{out} =7W (V _{GG} control), Load VSWR=20:1	No degradation or destroy			—

All parameters, conditions, ratings, and limits are subject to change without notice.

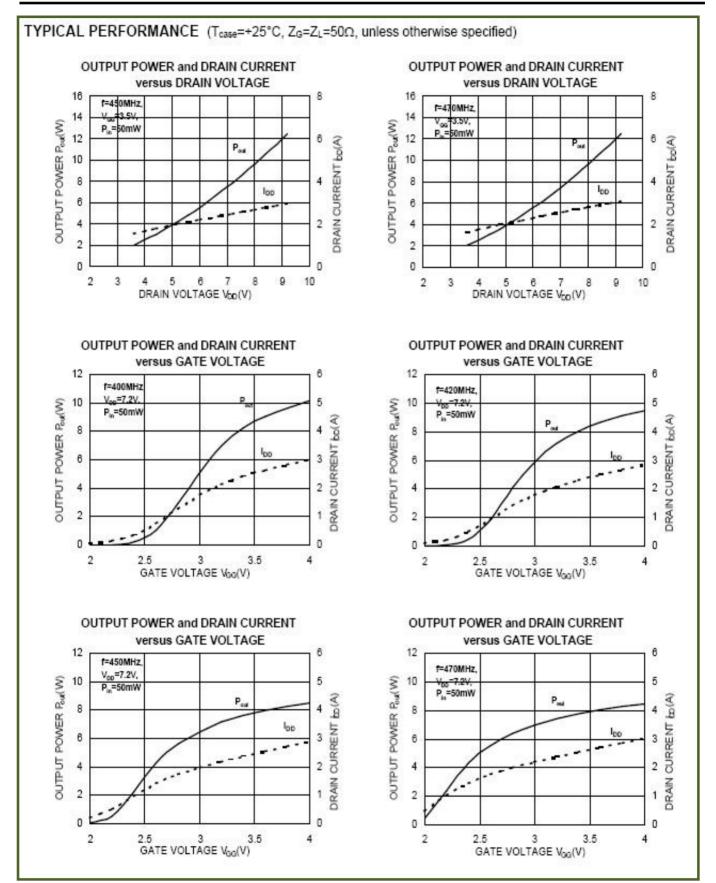


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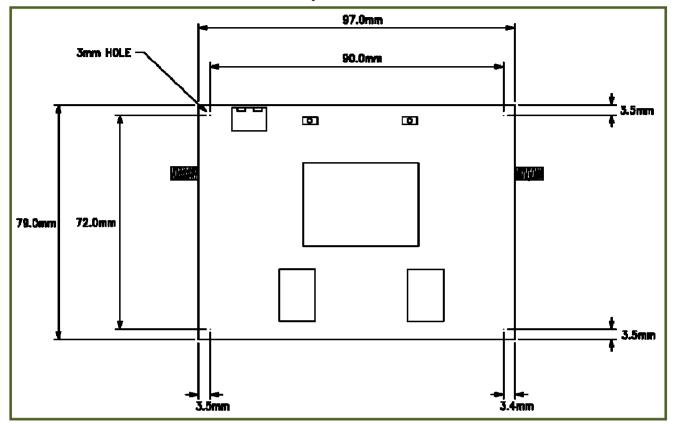


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5. 400MHz-470MHz RF Power Amplifier Size



**** Caution*****

- 1. Check the features first to connect with other equipment.
- 2. This circuit is strictly tested.
- 3. The deveolper, manufacturer or dealer is not responsible for any malfunctioning/damage caused by connection with other equipment.
- 4. Appropriate permit /approval is required for some products utilizing this module, depending on functions and usages.
- For more information and inquiry, please refer to the sites below.