

824-849 MHz 600 mW CDMA Power Amplifier

General Description

The NA00273 is a 600 mW CDMA power amplifier. It is a single biased (+12 V) power amplifier that operates between 824 MHz and 849 MHz. The amplifier incorporates internal forward power detection.

Performance 0 to 60 °C, Vcc = +27 V

Parameter	Min.	Typ.	Max.	Units
Frequency	824		849	MHz
CDMA Average Output Power		600		mW
Gain	34	35	36	dB
Gain Flatness			± 0.5	dB
Gain Variation Over Temperature			± 1.0	dB
Output Third Order Intercept Point (OIP3) ²			54	dBm
Noise Figure			10	dB
Input VSWR			1.5 : 1	
Output VSWR			1.3 : 1	
DC supply voltage (Vcc)		+12		V
Current			1.4	A
Operating Temperature (Ambient)	0		60	°C

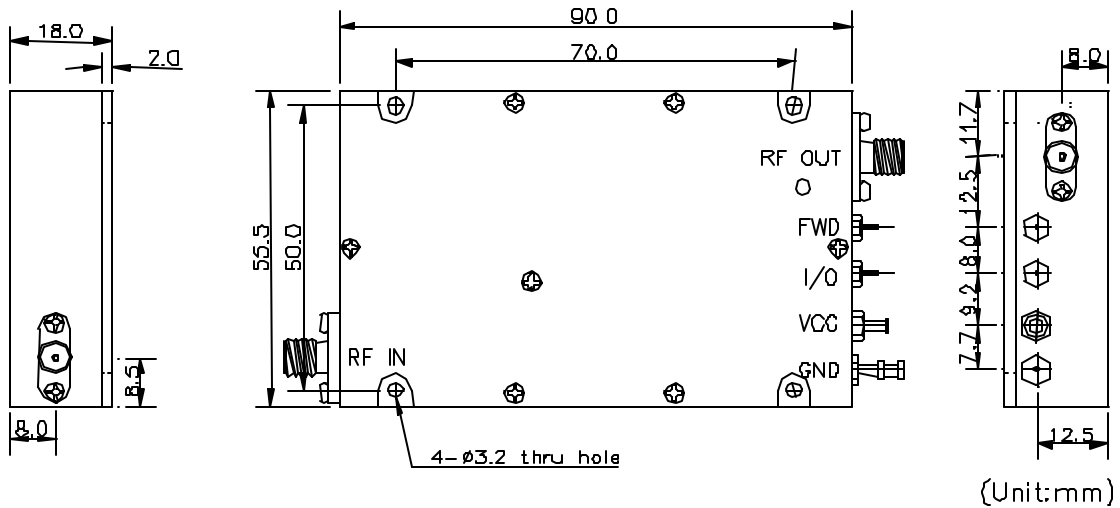
¹Resolution bandwidth of equipment is 30 kHz.

²Test Condition: 25 dBm/tone at output

Customized Designs: For custom designs, including both electrical and mechanical, please contact us at sales@nextec-rf.com.

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Outline Drawing



Connector Description

Name	Description
RFIN	(I) RF input signal (SMA-F)
RFOUT	(O) RF output signal (SMA-F)
VCC	(I) Power Supply: + 12V
GND	Ground
I/O	(I, H) Turn off the unit
FWD	(O) Forward Power Detector Output. 4.5 V at 28 dBm CDMA Transmit Power

(I: Input, O: Output, H: High Active, L: Low Active)

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