

**1860-1870 MHz Multicarrer (3FA) CDMA
25 W Power Amplifier**

General Description

The NA00260 is a 25 W CDMA power amplifier. It is a single biased (+27 V) power amplifier that operates between 1840 MHz and 1870 MHz. The amplifier incorporates internal forward power detection, VSWR alarm and over temperature protection circuit.

Performance -20 to 60 °C, Vcc = +27 V

Parameter		Min.	Typ.	Max.	Units
Frequency		1840		1870	MHz
Multicarrier CDMA Average Output Power (3FA)			25.0		W
Gain		49	50	51	dB
Gain Flatness				± 0.5	dB
Gain Variation Over Temperature				± 1.0	dB
Spurious Emission	± 885.0 kHz ¹			-40	dBc
	± 1.98 MHz ¹			-40	dBc
Input VSWR				1.5 : 1	
Output VSWR				1.5 : 1	
DC supply voltage (Vcc)			+27		V
Current				9	A
Operating Temperature (Ambient)		-20		60	°C

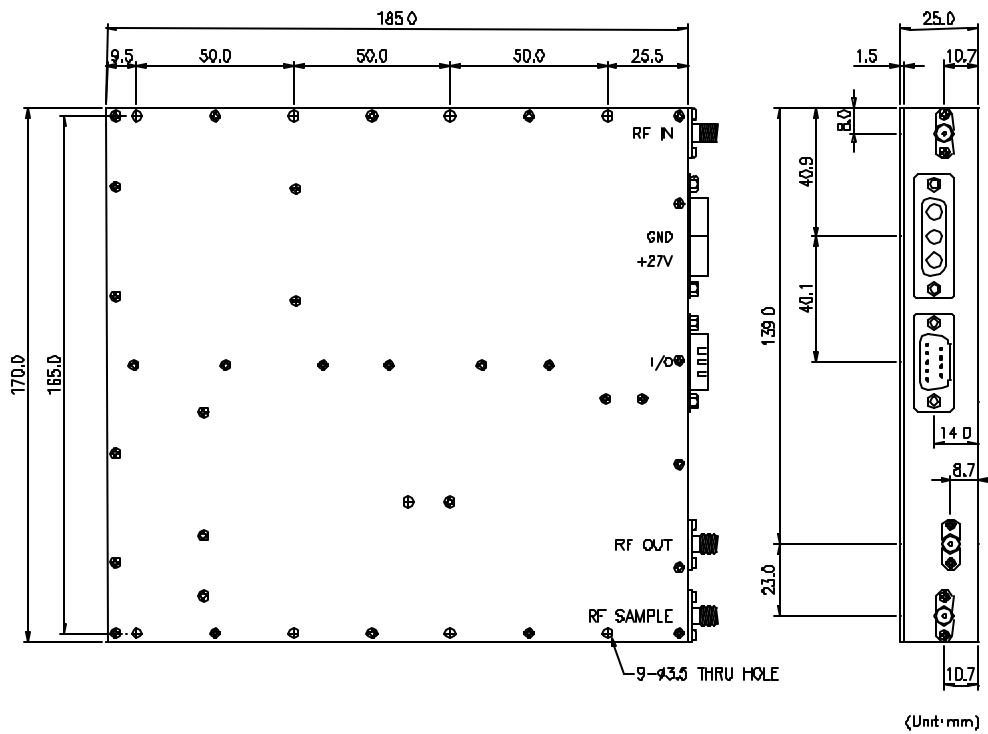
¹Resolution bandwidth of equipment is 30 kHz. CDMA 3 FA average power 44 dBm output.

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

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Outline Drawing



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Connector Description

Name	Description
RFIN	(I) RF input signal (SMA-F)
RFOUT	(O) RF output signal (SMA-F)
DC Input	D-Sub Solder Type 3W3P
	1: (I) + 27 V DC 2: Ground 3: Ground
Control Interface	D-Sub 9 Pin
	1: Ground 2: (O,H) Over Power Alarm @ 47 ± 1 dBm CDMA Average Power Output 3: (O,H) VSWR Alarm Active when reverse power at output port is over 38 ± 1 dBm CDMA average power. 4: Not Connected 5: (O,H) Over Temperature Alarm at over 90 ± 5 °C. After the alarm is active, it will be inactive when the temperature becomes at lower than 70 ± 5 °C. The amplifier will automatically shut down if alarm is active. 6: (I, H) Turn off the Amplifier 7: Not Connected. 8: (O) Forward Power Detection Output. Detected Power Range: 22 dBm (0.8 V out) to 42 dBm (4.2 V out) of CDMA Signal Average Power 9: Ground

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

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