

1840-1870 MHz 10 W Multicarrier (3FA)
CDMA Power Amplifier

General Description

The NA00258 is a 10 W Multicarrier (3FA) CDMA power amplifier. It is a single biased (+12 V) power amplifier that operates between 1840 MHz and 1870 MHz. The amplifier incorporates internal forward power detection and over temperature protection circuit.

Performance -20 to 55 °C, Vcc = +12 V

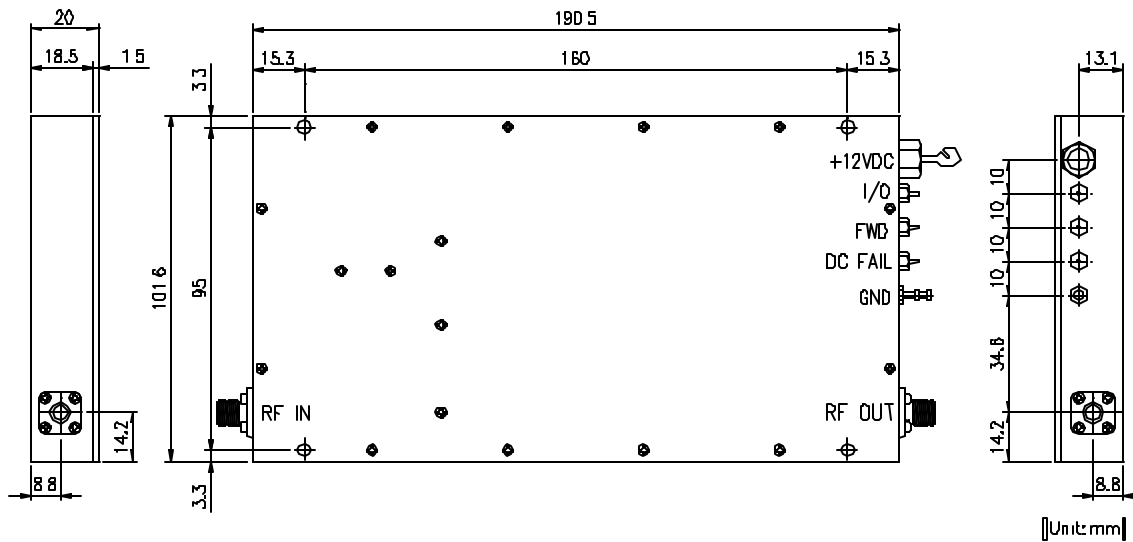
Parameter	Min.	Typ.	Max.	Units
Frequency	1840		1870	MHz
CDMA Average Output Power (3FA)		10.0		W
Gain	49	50	51	dB
Gain Flatness			± 0.5	dB
Gain Variation Over Temperature			± 1.0	dB
Spurious Emission at 3 FA 10 W average CDMA power output ¹	± 885.0 kHz		-30	dBc
	± 1.98 MHz		-52	dBc
Output IP3 Pout @ 37 dBm/tone Output Power		60		dBm
Input VSWR			1.5 : 1	
Output VSWR			1.5 : 1	
DC supply voltage (Vcc)		+12		V
Current			10	A
Operating Temperature (Ambient)	-20		55	°C

¹Resolution bandwidth of equipment is 30 kHz.

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

RFin	RF input signal (SMA-F)
RFout	RF output signal (SMA-F)
12V	DC Supply Voltage (+12 V)
FWD	Forward power detector output. 4.8V at 40 dBm CDMA Average Output Power Power Detection Range: 11 dBm to 30 dBm
ON/OFF	On (LOW)/Off (HIGH) control input
DCFAIL	Over Temperature Alarm. The Amplifier will be shut down at 85 ± 5 °C.
GND	Ground

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