



# CORRY MICRONICS, INC PRODUCT SPECIFICATION

## GSM1805-1880-32 GSM Power Amplifier 1805-1880 MHz 32 Watts

### Functions

Num.	Description
1	ALC Point Control and Read
2	ALC on/Off Control and Read
3	PA Mute On/Off Control and Read
4	Digital Attenuator Control
5	Operating Temperature Monitor and Alarm
6	Output Power Monitor
7	Reverse Power Monitor and Alarm
8	DC Current Monitor and Alarm
9	Protected Against High Reflected Power

### Environmental Specifications

Parameter	Specification
Max Base Plate Operating Temp.	0° to +85° C Shutdown @ 90° C
Relative Humidity	5% ~ 96 %
Atmospheric Pressure	70 kPa ~ 106 kPa
Cooling	Not provided, User Supplied

**CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.**

**Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407**  
**(724) 940-7556 ext. 138 Fax (724) 940-7707 [www.cormic.com](http://www.cormic.com)**

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### Electrical Specifications

Parameter	Specification
Frequency	1805 – 1880 MHz
Signal Type	GSM, PAR 0 dB @ 0.01%
Nominal Output Power	32 W
Nominal Gain	33 dB
Gain w/ ALC off +/- 1db	33 ± 1dB (Room Temperature/ Value of attenuator 8.5 dB) 33 ± 1.5 dB (Low and High Temperature/ Value of attenuator 8.5 dB)
Input Return Loss	18 dB
Output Return Loss	18 dB
Tx ALC control range vs. Tx input level change, Min	16 dB (Nominal Input +/- 8 dB)
ALC Set Range	16 dB (45 ~ 30 dBm)
ALC Set Step	0.5 dB
ALC Control Accuracy	± 1dB
Attenuator Set Range (ALC Off)	31 dB
Attenuator Set Step (ALC Off)	0.25 dB
Max Input Level, No Damage and Degradation	+15 dBm
Noise Figure (ALC Off)	≤ 20 dB
DC Power	+28V
Efficiency	≥ 35% @ 32 W
Output Load Mismatch Tolerance	Isolator Protected
Power Consumption when Muted	< 5 W

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Forward Power Monitor	Range: 30 dB, 48 dBm ~ 19 dBm Resolution: 0.1 dBm Accuracy: $\pm 2$ dB
Reverse Power Monitor	Range: 30 dB, 48 dBm ~ 19 dBm Resolution: 0.1 dBm Accuracy: $\pm 2$ dB
DC Current Monitor	Range: 0 - 15 A Resolution: 0.1A Accuracy: $\pm 5\%$
Temperature Monitor	Range: $-40^{\circ}$ C ~ $+105^{\circ}$ C Resolution: $1^{\circ}$ C Accuracy: $\pm 3^{\circ}$ C
RF Connectors	SMA Female
Power Connector	M3 Screw Terminal
Control Connector	4 Position 2.5 mm Pitch Header Mates With JST XHP-4
Dimensions	See Attached Drawing (Dimensions are in mm)

### Control Pins

Pin Number	Description
1	GND
2	RS484_A
3	RS485_B
4	NC

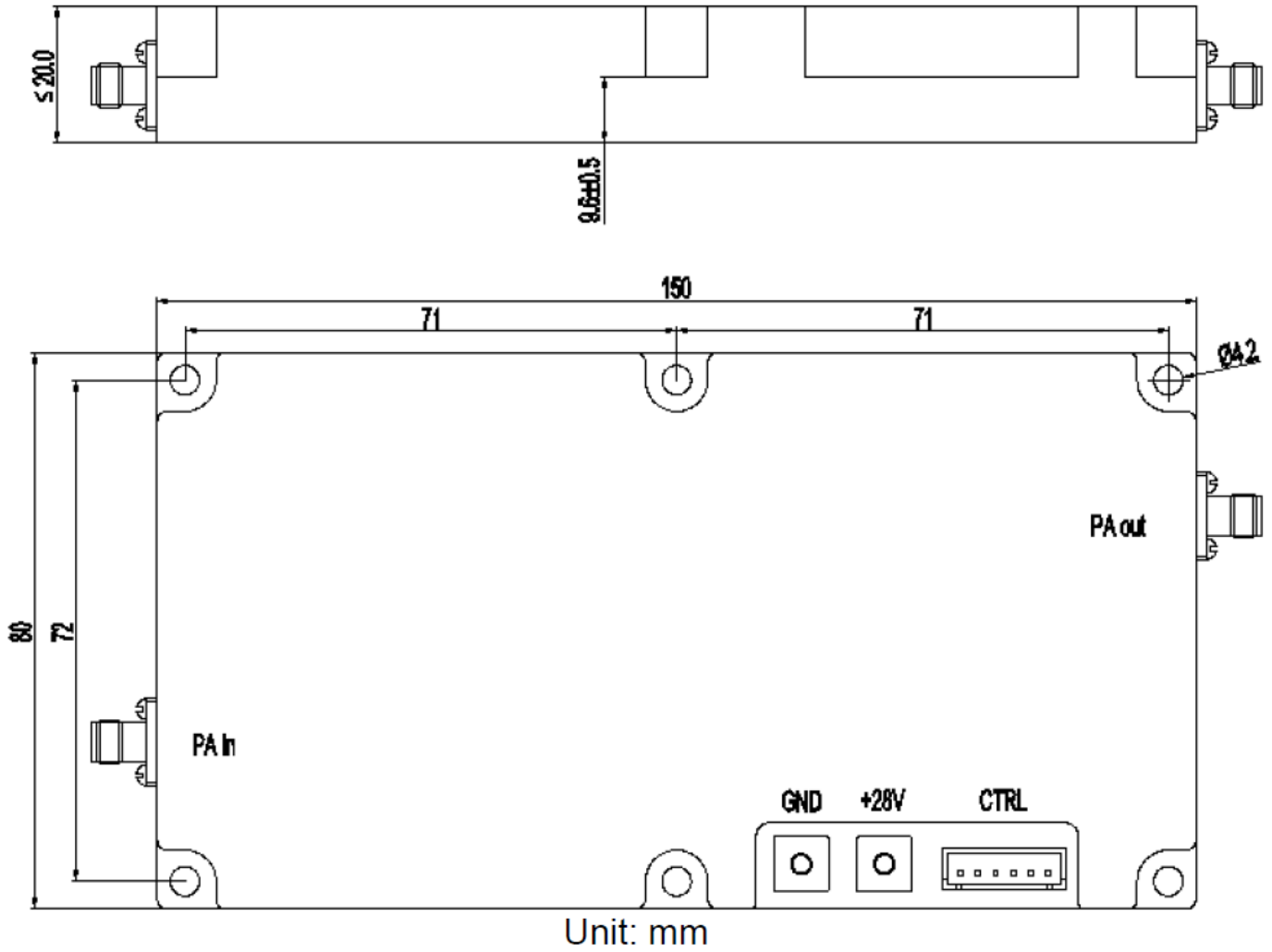
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### Outline Drawing



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