

## **Model SM1720-41L**

1700-2000 MHz 12 Watt Linear Power Amplifier PCS APPLICATIONS

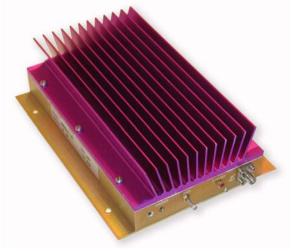
The **SM1720-41L** is a 1.7 to 2.0 GHz solid state GaAs FET amplifier designed for the Personal Communications (PCS) Market. Its small size and ultra high linearity make it ideally suited for systems using single or multi-carrier CDMA, TDMA, or other high dynamic range wireless application. Our proprietary pre-distortion technique dramatically improves the linearity of this amplifier, which provides an OIP3 of +60 dBm typical. The unit provides 51 dB of gain and operates off a single DC supply voltage of +12V.



- Built-in linearizer increases the OIP3 by 7 dB
- Temperature compensation
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

## **Options**

- Forward Power Detection
- Logic On/Off Control
- Heatsink



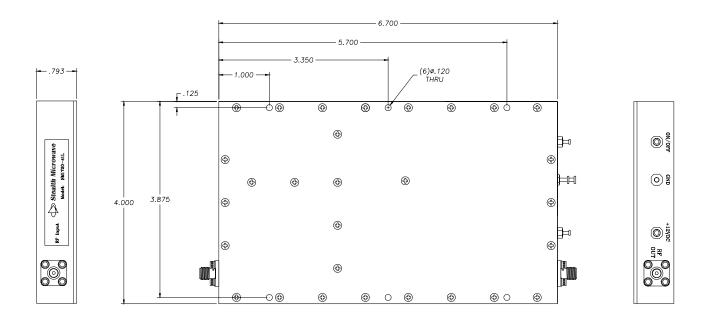
Parameter	Specification	
Frequency Range	1.7 – 2.0 GHz (100 MHz BW)	
Pout (P1dB)	+ 41 dBm (min.)	
Third Order Intercept Point	+ 60 dBm (min.)	
Linear Gain	$51 \text{ dB} \pm 1 \text{ dB}$	
Gain Flatness over Full Band	± .5 dB	
Input/Output Return Loss	-14 dB / -14dB	
DC Input Voltage	+ 12 Volts	
DC Supply Current	5.5 Amps (Varies per application)	
Mechanical Dimensions (Without Heatsink)	6.7 x 4.0 x 0.8 Inches	
RF Connectors	SMA Female	
Operating Temperature	0°C to +85°C	
Operating Humidity	95% Non-condensing	
Operating Altitude	Up to 10,000 feet above Sea Level	

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## **DIMENSIONS IN INCHES**



Pin	Description	Values
RF Input	Input Connector (SMA Female)	-8 dBm typical
RF OUT	Output Connector (SMA Female)	+41dBm @P1dB
GND	Ground Turret	
+12VDC	DC Input Voltage	+ 12 Volts @ 5.5 Amps (typ.)
ON/OFF	TTL Logic On/Off	0  Volts = Off, +5  Volts = On

Specifications subject to change without notice.

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