

## 2 – 6 GHz 16 dBm Limiting Amplifier

### FEATURES

- $P_{out}$  : 16 dBm
- NF : 3.5 dB
- Bias Condition: 450 mA @ 12 V

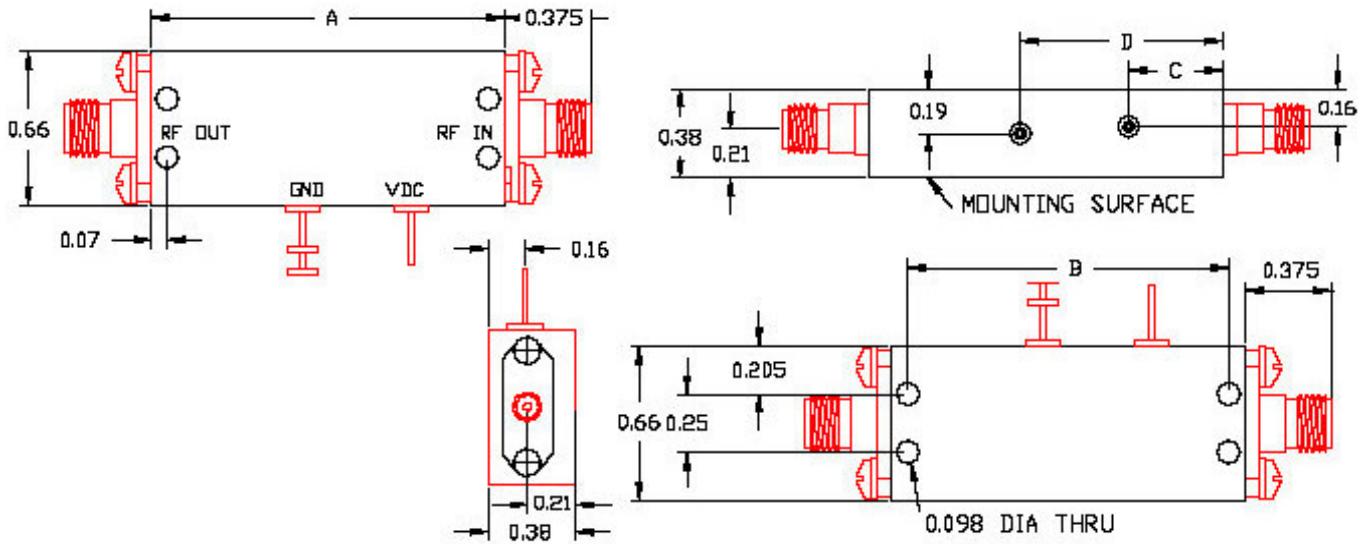
### DESCRIPTION

The TA020-060-00-16 is a 16 dBm limiting amplifier designed for operation in the 2 to 6 GHz frequency range. This amplifier provides high gain and low noise figure. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires only a +12V DC power supply.

### ELECTRICAL SPECIFICATIONS (Ta = 25 °C)

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
<b>FREQ</b>	<b>Frequency Range</b>	<b>2</b>		<b>6</b>	<b>GHz</b>
<b>Pin</b>	<b>Input Power</b>	<b>-61</b>		<b>+10</b>	<b>dBm</b>
<b>Pout</b>	<b>Output Power ( Psat )</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>dBm</b>
<b>NF</b>	<b>Noise Figure @ 2-3GHz</b>		<b>3.5</b>	<b>4.5</b>	<b>dB</b>
	<b>Noise Figure @ 3-6GHz</b>		<b>2.5</b>	<b>4</b>	<b>dB</b>
<b>VSWR, IN</b>	<b>Input VSWR</b>		<b>1.8:1</b>	<b>2:1</b>	<b>-----</b>
<b>VSWR, OUT</b>	<b>Output VSWR</b>		<b>1.8:1</b>	<b>2:1</b>	<b>-----</b>
<b>VDC</b>	<b>DC Supply Voltage</b>	<b>11.9</b>	<b>12</b>	<b>12.1</b>	<b>Volt</b>
<b>IDC</b>	<b>Current Supply</b>		<b>450</b>	<b>550</b>	<b>mA</b>
<b>OTR</b>	<b>Operating Temperature Range</b>	<b>-20</b>		<b>70</b>	<b>°C</b>

### CASE : HO5



CASE	"A" DIM	"B" DIM	"C" DIM	"D" DIM
HO 3	1.116	0.976	0.430	0.680
HO 4	1.359	1.220	0.680	1.130
HO 5	1.602	1.462	0.680	1.130
HO 6	1.845	1.705	0.920	1.370
HO 7	2.088	1.948	0.920	1.370
HO 8	2.331	2.190	1.170	1.510
HO 9	2.574	2.434	1.410	1.860