

Guaranteed Specifications at 25° Flange Temperature

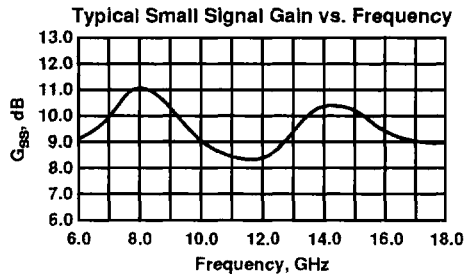
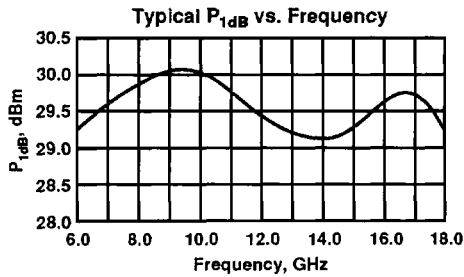
Model	Frequency Response (GHz) Min.	Gain (dB) Min.	Gain Flatness (±dB) Typ.	Power Output for 1 dB Gain Comp. (dBm) Min.	Power Added Efficiency (%) Min.	Input Voltage (VDC)	Input Current (mA) Typ.
<b>NEW</b> MDL-60180-0.5	6-18	7	1.0	28.0	8.3	8.5 <sup>1</sup>	900
<b>NEW</b> MDL-7278-6	7.2-7.8	16.3	0.5	37.4	38.0	+12/-5	900/25
<b>NEW</b> MDL-7383-6	7.3-8.3	16.3	0.5	37.4	38.0	+12/-5	900/25
<b>NEW</b> MDL-7984-6	7.9-8.4	16.3	0.5	37.4	37.0	+12/-5	900/25
<b>NEW</b> MDL-85105-5	8.5-10.5	16	0.3	36.5 <sup>2</sup>	29.5	9 <sup>1</sup>	1100
<b>NEW</b> MDL-90100-10	9.0-10.0	19.0	0.3	39.1	32.0	+9/-5	1100/25

Notes:

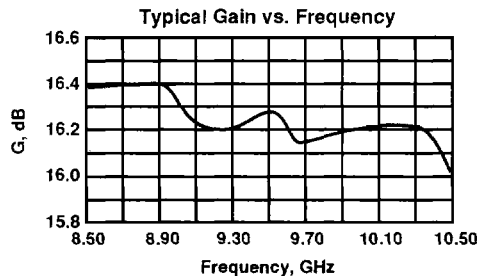
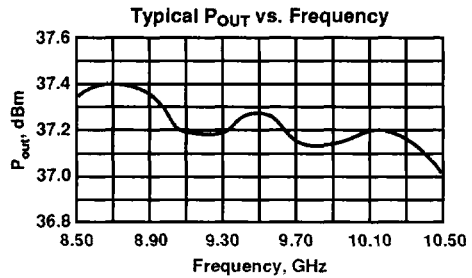
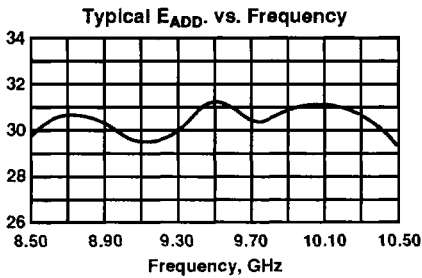
1. Drain supply nominal-also requires -5.0 V Gate Supply
2. At Pin = +21.0 dBm

**Performance  
Curves**

**MDL-60180-0.5  
Typical Performance**



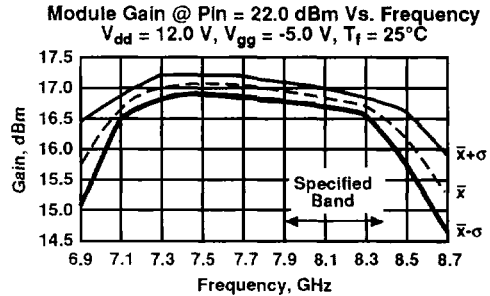
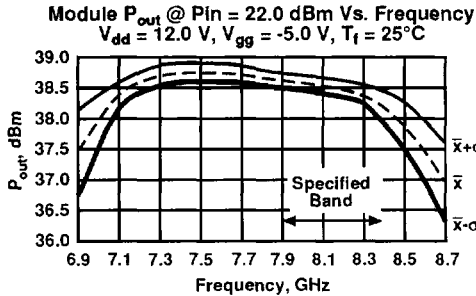
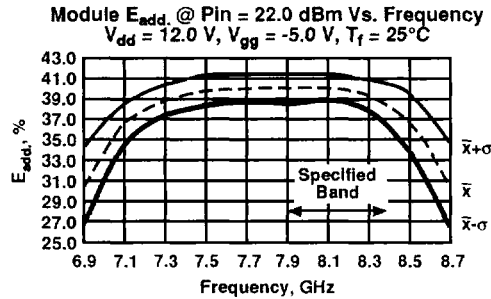
**MDL-85105-5  
Typical Performance**



Performance  
Curves

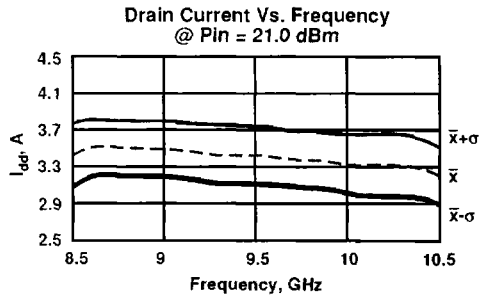
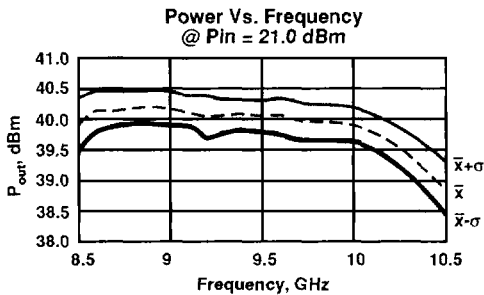
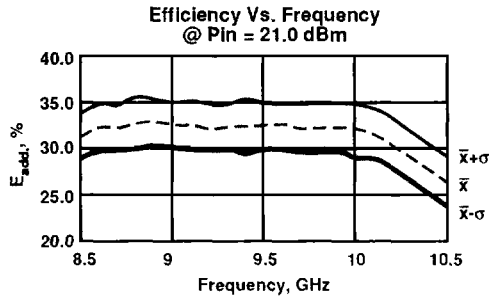
MDL-7984-6  
Typical Performance

KEY:  
 $\bar{x}$  = Mean  
 $\sigma$  = Standard Deviation



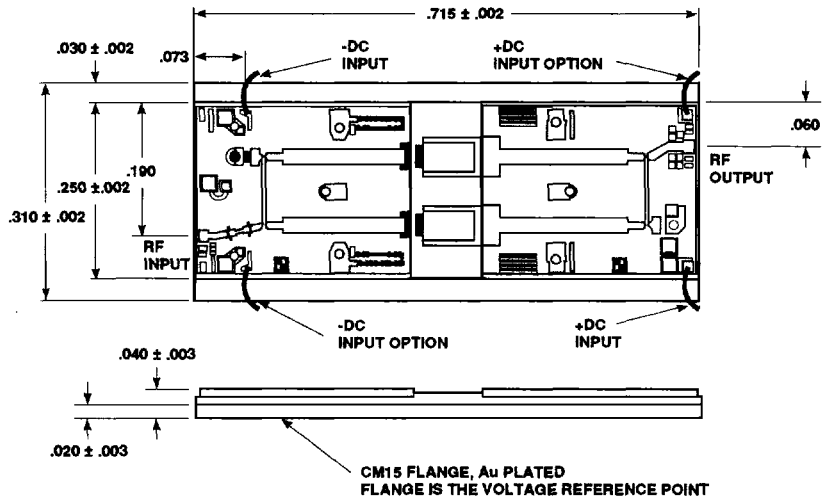
MDL-90100-10  
Typical Performance

KEY:  
 $\bar{x}$  = Mean  
 $\sigma$  = Standard Deviation



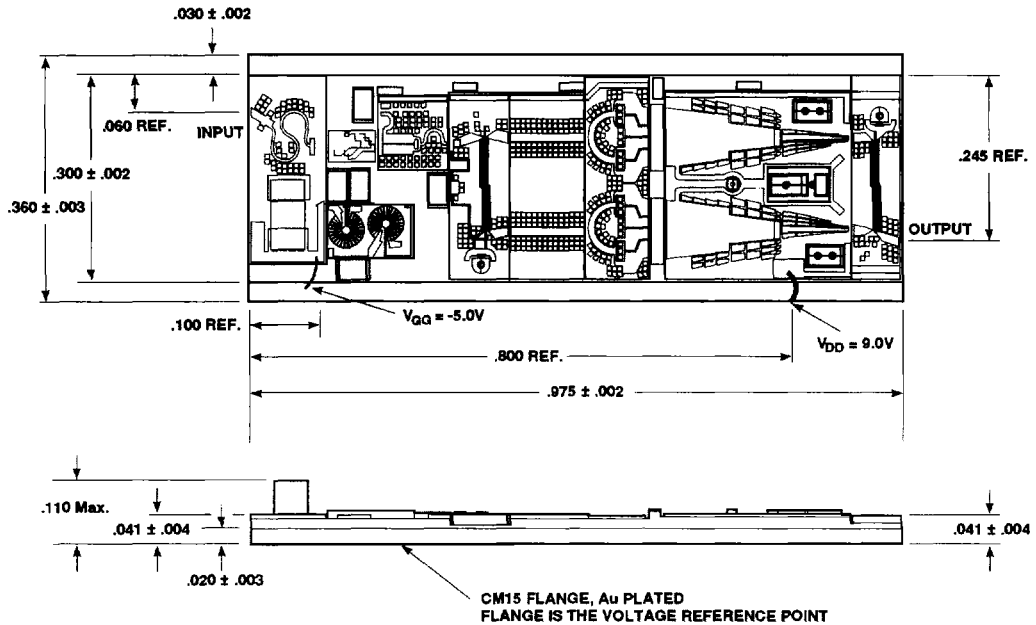
**MDL Series: High Efficiency, Open Carrier  
Wideband Power Amplifiers**

**Case Drawing  
MDL-60180-0.5**



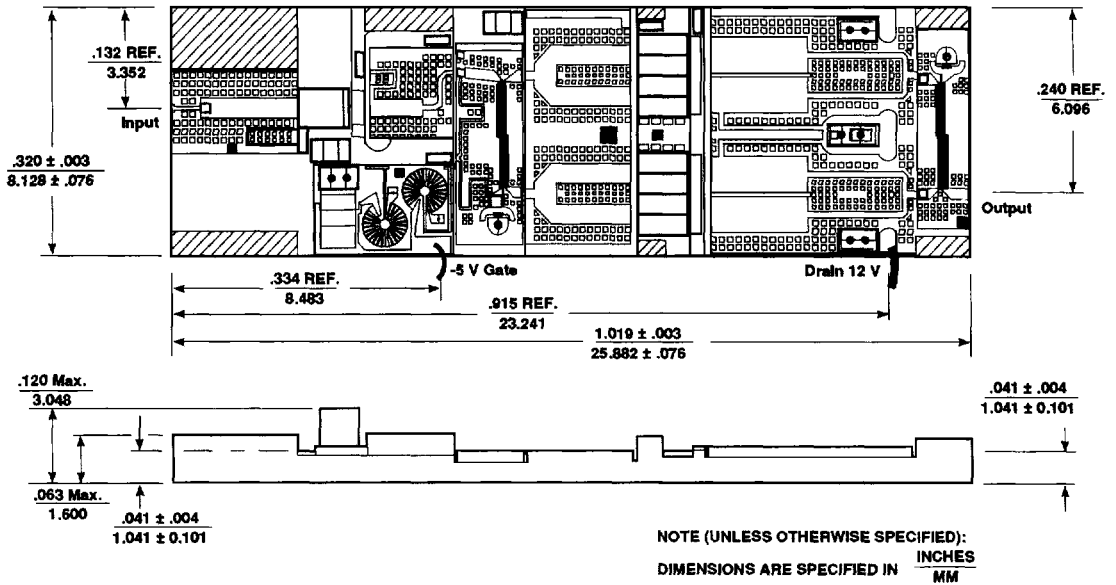
Note: (unless otherwise specified)  
1. Dimensions are specified in inches.

**Case Drawing  
MDL-85105-5**



Note: (unless otherwise specified)  
1. Dimensions are specified in inches.

Case Drawing  
MDL-7278-6, 7383-6, 7984-6



Case Drawing  
MDL-90100-10

