

**LASERMETRICS® DIVISION**

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**MODELS AF3 & AF3-1**

**EXTENDED RANGE AMPLIFIERS**

Models AF3 and AF3-1 are Solid State Amplifiers having a wide bandwidth of 5 Hz to 250 kHz and 1 MHz respectively. The 650 volt (AF3) and 350 volt (AF3-1) maximum peak to peak output voltages can drive light modulators having a capacitance of up to 150 picofarads.

These AC coupled amplifiers provide a DC voltage bias for setting the modulator optical operating point. They are intended for driving the relatively low capacitance of Lasermetrics Low Voltage Modulators as well as other available transverse field and reduced voltage devices. Applications include: Broadband Audio and Ultrasonic communications, Light Chopping and Gating, Data Printing, Polarization and Optical Control systems employing lasers.

The Model AF3-1 provides four times the bandwidth at more than half the output voltage of the AF3. These amplifiers were designed for use with Lasermetrics Series 3079 Low Voltage Light Modulators and can be used with similar low voltage light modulators from other suppliers.



<b>NOMINAL SPECIFICATIONS</b>	<b>AF3</b>	<b>AF3-1</b>
Input Voltage for max. output	< ----- 1.6 volt peak to peak ----- >	
Input Impedance, typical	< ----- 1000 ohms ----- >	
Output Voltage, max.	650 volts peak to peak	350 volts peak to peak
Bandwidth, (-3 db) sinusoidal output, @ 75 picofarad load	5 Hz to 250 kHz	5 Hz to 1 MHz
@ 150 picofarad load	5 Hz to 150 kHz	5 Hz to 750 kHz
Gain, Max.	55 db	50 db
Gain Control, front panel	< ----- Continuously Variable ----- >	
Bias Output	< ----- 0 to ± 350 VDC ----- >	
Supply Power required, max.	< ----- 45 watts, 115/230 VAC, 50/60 Hz ----- >	
Cabinet Dimensions	< ----- 11"W x 8½"H x 11"D ----- >	
Weight	< ----- 5 kg ----- >	