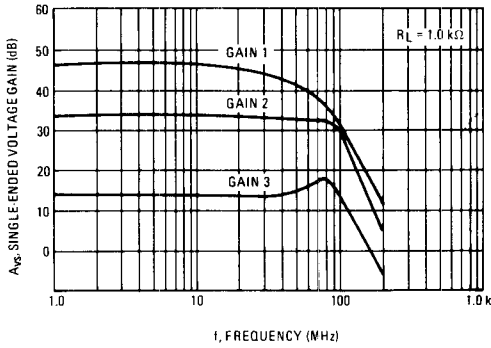


## NON-AGC AMPLIFIERS

### MC1733/MC1733C – Utility Amplifier

Differential input and output amplifier provides three fixed gain options with bandwidth to 120 MHz. External resistor permits any gain setting from 10 to 400 V/V. Extremely fast rise time (2.5 ns typ) and propagation delay time (3.6 ns typ) makes this unit particularly useful as pulse amplifier in tape, drum, or disc memory read applications.

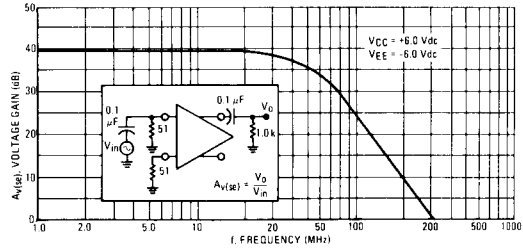
**GAIN versus FREQUENCY**



### MC1510/MC1410 – General-Purpose Amplifier

Differential amplifier with flat response to 40 MHz. Provides excellent performance and simple design for most video and communications purposes.

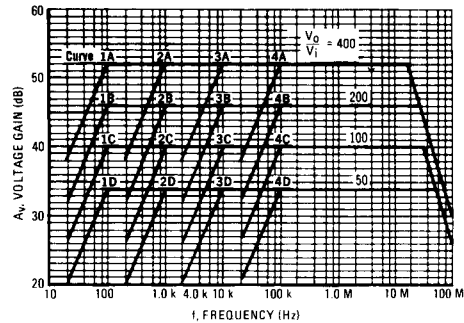
**VOLTAGE GAIN versus FREQUENCY**



### MC1552/MC1553 – Low Distortion Amplifier

Extremely high performance amplifier with internal series feedback for stable voltage gain and low distortion. Temperature compensation stabilizes operating point. Has selectable gain option and well characterized data that permits accurate response shaping (see graph). Useful for critical applications such as wideband linear amplifiers or fast-rise pulse amplifiers.

**FREQUENCY RESPONSE**



## NON-AGC AMPLIFIERS ELECTRICAL SPECIFICATIONS

Operating Temperature Range		Av dB	Bandwidth MHz	VCC/VEE Vdc	Case	Special Features
-55 to +125°C	0 to +75°C					
MC1733	MC1733C	52 40 20	@ 40 90 120	+6/-6	603, 632	3-Fixed Gain Options. Fast Rise Time and Propagation
MC1510	MC1410	40	40	+6/-6	601	
MC1553	-	46 52	@ 35 15	+6/-6	602B	High and Low Gain Versions of precision amplifier with distortion as low as 0.2% at 200 KHz.
MC1552	-	34 40	@ 40 35	+6/-6	602B	