# $550 \mathrm{MHz}, 2200 \mathrm{~V} /$ us Gain of 1 , Single Supply Triple Video Amplifier with Input Bias Control 

## feATURES

- -3dB Small-Signal Bandwidth: 550MHz
- -3 dB 2V $\mathrm{p}_{\text {p-p }}$ Large-Signal Bandwidth: 400MHz
- Slew Rate: 2200V/us
- Fixed Gain of 1, No External Resistors Required
- AC Coupling with Programmable DC Input Bias
- Output Swings to 0.8V of Supply Rails
- Full Video Swing with 5V Single Supply
- Differential Gain: 0.02\%
- Differential Phase: $0.02^{\circ}$
- Enable/Shutdown Pin
- High Output Current: $\pm 90 \mathrm{~mA}$
- Supply Range: 3 V to 7.5 V
- Operating Temperature Range: $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$
- Available in 16 -Lead SSOP and $5 \mathrm{~mm} \times 3 \mathrm{~mm}$ DFN Packages


## APPLICATIONS

- LCD Video Projectors
- RGB HD Video Amplifiers
- Coaxial Cable Drivers
- Low Supply ADC Drivers


## DESCRIPTIOn

The LT ${ }^{\circledR} 6558$ is a high speed triple video amplifier with an internal fixed gain of 1 and a programmable DC input bias voltage. This amplifier features a 400MHz 2Vp-p signal bandwidth, $2200 \mathrm{~V} / \mu$ s slew rate and a unique ability to drive heavy output loads to 0.8 V of the supply rails, making the LT6558 ideal for a single 5 V supply, wideband video application. With just one resistor, the inputs of allthree amplifiers can be programmed to a common voltage level, simplifying and reducing the need for external circuitry in AC-coupled applications. Without the programming resistor, the input bias circuit becomes inactive, allowing the use of an external clamp circuit or direct coupled input.
The LT6558 has separate power supply and ground pins for each amplifier to improve channel separation and to ease power supply bypassing. The LT6558 provides uncompromised performance in many high speed applications where a low voltage, single supply is required.
The LT6558 is available in 16 -lead SSOP and $5 \mathrm{~mm} \times 3 \mathrm{~mm}$ DFN packages.
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## TYPICAL APPLICATION

AC-Coupled Triple Video Driver


Fast Large-Signal Transient Response


## ABSOLUTE MAXIMUM RATIOGS (Note 1)

Total Supply Voltage ( $\mathrm{V}^{+}$to GND)
7.5V

Input Current $\qquad$
Output Current (Note 2) ...................................... $\pm 90 \mathrm{~mA}$
Output Short-Circuit Duration (Note 2) $\qquad$ Indefinite
Operating Temperature Range (Note 3) $\ldots-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$
Specified Temperature Range (Note 4) .... $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$

Junction Temperature
SSOP $150^{\circ} \mathrm{C}$
DFN. $125^{\circ} \mathrm{C}$
Storage Temperature Range
SSOP $-65^{\circ} \mathrm{C}$ to $150^{\circ} \mathrm{C}$
DFN. $\qquad$ $-65^{\circ} \mathrm{C}$ to $125^{\circ} \mathrm{C}$
Lead Temperature (Soldering, 10 sec ) SSOP $300^{\circ} \mathrm{C}$

## PACKAGE/ORDER INFORMATION

|  | 16 BCV $15 \mathrm{~V}^{+}$ 14 OUT R $13 \mathrm{~V}^{+} \mathrm{R}$ 12 OUTG $11 \mathrm{~V}^{+} \mathrm{G}$ 10 OUTB $9 \mathrm{~V}^{+} \mathrm{B}$ | 16-LEAD (5mm <br> $T_{\text {Jmax }}=12$ <br> EXPOSED PAD (PIN 17) IS G | BCV $V^{+}$ OUT R $V^{+} R$ OUT G $V^{+} G$ OUT B $V^{+} B$ W DFN WLDERED TO PCB |
| :---: | :---: | :---: | :---: |
| ORDER PART NUMBER | GN PART MARKING | ORDER PART NUMBER | PART MARKING* |
| LT6558CGN <br> LT6558IGN | 6558 6558\| | LT6558CDHC <br> LT6558IDHC | $\begin{aligned} & 6558 \\ & 6558 \end{aligned}$ |
| Order Options Tape and Reel: Add \#TR Lead Free: Add \#PBF Lead Free Tape and Reel: Add \#TRPBF Lead Free Part Marking: http://www.linear.com/leadfree/ |  |  |  |

Consult LTC Marketing for parts specified with wider operating temperature ranges. *The temperature grade is identified by a label on the shipping container.

ELECTRCAL CHARACTERISTIC
The $\bullet$ denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_{A}=25^{\circ} \mathrm{C} . \mathrm{V}_{\mathrm{S}}=5 \mathrm{~V}, \mathrm{R}_{\mathrm{L}}=150 \Omega$ to $\mathrm{V}_{\mathrm{S}} / 2, \mathrm{~V}_{\mathrm{EN}}=0.4 \mathrm{~V}, \mathrm{R}_{\mathrm{BCV}}=$ open, unless otherwise noted.

| SYMBOL | PARAMETER | CONDITIONS |  | MIN | TYP | MAX | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\text {OS }}$ | Input Offset Voltage | $\mathrm{V}_{\text {IN }}=2.5 \mathrm{~V}$ | $\bullet$ |  | $\begin{aligned} & 12 \\ & 15 \end{aligned}$ | $\begin{aligned} & 45 \\ & 55 \end{aligned}$ | mV mV |
| 1 IN | Input Current | $\mathrm{V}_{\text {IN }}=2.5 \mathrm{~V}$ | $\bullet$ |  | $\begin{aligned} & 35 \\ & 45 \end{aligned}$ | $\begin{gathered} 70 \\ 100 \end{gathered}$ | $\mu \mathrm{A}$ $\mu \mathrm{A}$ |
| $\mathrm{R}_{\text {IN }}$ | Input Resistance | $\mathrm{V}_{\text {IN }}=2 \mathrm{~V}$ to 3V, BCV (Pin 16) Open | $\bullet$ | $\begin{aligned} & 200 \\ & 150 \end{aligned}$ | $\begin{aligned} & 450 \\ & 400 \end{aligned}$ |  | $\mathrm{k} \Omega$ $\mathrm{k} \Omega$ |
| $\mathrm{C}_{\text {IN }}$ | Input Capacitance | $\mathrm{f}=1 \mathrm{MHz}$ |  |  | 1.4 |  | pF |
|  |  |  |  |  |  |  | 6558 |

ELECTRICAL CHARACTERISTICS The • denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C} . \mathrm{V}_{\mathrm{S}}=5 \mathrm{~V}, \mathrm{R}_{\mathrm{L}}=150 \Omega$ to $\mathrm{V}_{\mathrm{S}} / 2, \mathrm{~V}_{\overline{E N}}=0.4 \mathrm{~V}, \mathrm{R}_{B C V}=$ open, unless otherwise noted.

| SYMBOL | PARAMETER | CONDITIONS |  | MIN | TYP | MAX | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{A}_{V}$ ERR | Gain Error | $\mathrm{V}_{\text {IV }}=1.5 \mathrm{~V}$ to 3.5 V | $\bullet$ |  | $\begin{aligned} & \pm 0.7 \\ & \pm 0.9 \end{aligned}$ | $\begin{aligned} & \pm 2.0 \\ & \pm 2.5 \end{aligned}$ | \% |
| $\mathrm{A}_{\mathrm{v}}$ MATCH | Gain Match Between Channels | $\mathrm{V}_{\text {IV }}=1.5 \mathrm{~V}$ to 3.5 V | $\bullet$ |  | $\begin{aligned} & \pm 0.02 \\ & \pm 0.05 \end{aligned}$ | $\begin{aligned} & \pm 1.5 \\ & \pm 2.5 \end{aligned}$ | \% |
| $\mathrm{V}_{\text {IN(DC) }}$ | Input Voltage Bias | $R_{B C V}=158 \Omega$ | $\bullet$ | $\begin{aligned} & 2.0 \\ & 1.5 \end{aligned}$ | $\begin{aligned} & 2.5 \\ & 2.8 \end{aligned}$ | $\begin{gathered} 3 \\ 3.5 \end{gathered}$ | V |
| PSRR | Power Supply Rejection Ratio | $\mathrm{V}_{S}=4 \mathrm{~V}$ to $6 \mathrm{~V}, \mathrm{~V}_{\text {IN }}=1.25 \mathrm{~V}$ | $\bullet$ | $\begin{aligned} & 42 \\ & 38 \end{aligned}$ | $\begin{aligned} & 50 \\ & 47 \end{aligned}$ |  | ${ }_{\text {dB }}^{\text {dB }}$ |
| $\mathrm{V}_{0}$ | Output Voltage Swing Low |  | $\bullet$ |  | $\begin{aligned} & 0.8 \\ & 0.9 \end{aligned}$ | $\begin{aligned} & 0.9 \\ & 1.0 \end{aligned}$ | V |
| $\mathrm{V}_{\text {OH }}$ | Output Voltage Swing High |  | $\bullet$ | $\begin{aligned} & \hline 4.1 \\ & 4.0 \end{aligned}$ | $\begin{aligned} & \hline 4.2 \\ & 4.1 \end{aligned}$ |  | V |
| $I_{s}$ | Supply Current per Amplifier | $V_{\overline{E N}}=0.4 V, R_{L}=\infty$, Includes IS of $\mathrm{V}^{+}$ (Pin 15) | - |  | $\begin{aligned} & 22.5 \\ & 25.0 \end{aligned}$ | $\begin{array}{r} 24 \\ 28 \\ \hline \end{array}$ | mA mA |
|  | Total Supply Current (Disabled) | $V_{\text {EN }}=0$ pen, $\mathrm{R}_{\mathrm{L}}=\infty$ | $\bullet$ |  | $\begin{aligned} & \hline 10 \\ & 10 \end{aligned}$ | $\begin{gathered} \hline 450 \\ 1000 \end{gathered}$ | $\mu \mathrm{A}$ $\mu \mathrm{A}$ |
| IEN | Enable Pin Current | $\mathrm{V}_{\text {EN }}=0.4 \mathrm{~V}$ | $\bullet$ | $\begin{aligned} & \hline-250 \\ & -300 \end{aligned}$ | $\begin{aligned} & \hline-125 \\ & -150 \end{aligned}$ |  | $\mu \mathrm{A}$ $\mu \mathrm{A}$ |
| Isc | Short-Circuit Current |  | $\bullet$ | $\begin{aligned} & \pm 60 \\ & \pm 40 \end{aligned}$ | $\begin{aligned} & \pm 90 \\ & \pm 80 \end{aligned}$ |  | mA mA |
| SR | Slew Rate | $\mathrm{V}_{\text {Out }}=1.25 \mathrm{~V}$ to 3.75V (Note 5) |  | 1200 | 2200 |  | V/ $/$ s |
| -3dB BW | -3dB Bandwidth | $V_{\text {OUT }}=2 V_{\text {P-P }}$ |  |  | 400 |  | MHz |
|  |  | $\mathrm{V}_{\text {OUT }}=0.2 \mathrm{~V}_{\text {P-P }}$ |  |  | 550 |  | MHz |
| 0.1 dB BW | Gain Flatness $\pm 0.1 \mathrm{~dB}$ Bandwidth | $V_{\text {OUT }}=2 V_{\text {P-P }}$ |  |  | 100 |  | MHz |
| FPBW | Full Power Bandwidth | $\mathrm{V}_{\text {Out }}=2 \mathrm{~V}_{\text {p-p }}($ Note 6 ) |  | 190 | 350 |  | MHz |
| XTalk | All Hostile Crosstalk | $\begin{aligned} & f=10 \mathrm{MHz}, V_{\text {out }}=2 V_{\text {P-p }} \\ & f=100 \mathrm{MHz}, V_{\text {OUT }}=2 V_{P-P} \end{aligned}$ |  |  | $\begin{aligned} & \hline-80 \\ & -55 \end{aligned}$ |  | dB dB |
| $\mathrm{t}_{\mathrm{s}}$ | Settling Time | $\begin{aligned} & \text { To } 1 \%, \mathrm{~V}_{\text {OUT }}=1.5 \mathrm{~V} \text { to } 3.5 \mathrm{~V} \\ & \text { To } 0.1 \% \end{aligned}$ |  |  | $\begin{aligned} & 4 \\ & 7 \end{aligned}$ |  | ns ns |
| $\mathrm{tr}_{\mathrm{r}} \mathrm{t}_{\mathrm{f}}$ | Rise Time, Fall Time | $10 \%$ to $90 \%, \mathrm{~V}_{\text {OUT }}=1.5 \mathrm{~V}$ to 3.5 V |  |  | 875 |  | ps |
| $\Delta \mathrm{G}$ | Differential Gain | NTSC Signal |  |  | 0.02 |  | \% |
| $\Delta \Phi$ | Differential Phase | NTSC Signal |  |  | 0.02 |  | Deg |
| HD2 | 2nd Harmonic Distortion | $\mathrm{f}=10 \mathrm{MHz}, \mathrm{V}_{\text {OUT }}=2 \mathrm{~V}_{\text {P-P }}$ |  |  | -75 |  | dBC |
| HD3 | 3rd Harmonic Distortion | $f=10 \mathrm{MHz}, \mathrm{V}_{\text {OUT }}=2 V_{\text {P-P }}$ |  |  | -79 |  | dBC |

Note 1: Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.
Note 2: A heat sink may be required to keep the junction temperature below the Absolute Maximum Rating.
Note 3: The LT6558C is guaranteed functional over the temperature range of $-40^{\circ} \mathrm{C}$ and $85^{\circ} \mathrm{C}$.
Note 4: The LT6558C is guaranteed to meet specified performance from $0^{\circ} \mathrm{C}$ to $70^{\circ}$. The LT6558C is designed, characterized and expected to
meet specified performance from $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ but is not tested or QA sampled at these temperatures. The LT6558I is guaranteed to meet specified performance from $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$.
Note 5: Slew rate is $100 \%$ production tested on the R channel and measured on the rising edge of the output signal. The slew rate of the falling edge and of the G and B channels is guaranteed through design and characterization.
Note 6: Large-signal bandwidth is calculated from slew rate:
FPBW $=S R /\left(\pi \bullet V_{P-p}\right)$

## TYPICAL PERFORMANCE CHARACTERISTICS



6558 G01

## Supply Current per Amplifier vs Supply Voltage




Gain Error Matching Distribution


6558

## Supply Current per Amplifier vs Temperature



## Offset Voltage vs Temperature



Voltage Gain vs Temperature


Supply Current per Amplifier vs EN Voltage


Input Bias Current vs Input Voltage


## TYPICAL PERFORMAOCE CHARACTERISTICS



Input Bias Voltage vs Resistance at BCV Pin


Frequency Response


Output Voltage Swing vs Load Current (Output High)


Input Bias Voltage vs Temperature


Frequency Response of Three Amplifiers


Output Voltage Swing vs Load Current (Output Low)


## Bias Control Voltage

vs Temperature


6558 G15

## TYPICAL PERFORMANCG CHARACTERISTICS



## TYPICAL PERFORMANCE CHARACTERISTICS



6558 G27


Enable/Disable Response



## PIn functions

$\overline{\mathrm{EN}}$ (Pin 1): Enable Control Pin. The part is enabled when this pin is pulled low. An internal pull-up resistor of 40k will turn the part off if this pin is unconnected.
GND (Pin 2): Ground Reference for Enable Pin (Pin 1) and Bias Control Voltage Pin (Pin 16). This pin must be connected externally to ground.

IN R (Pin 3): Red Channel Input. This pin has a nominal impedance of $450 \mathrm{k} \Omega$ with input bias circuit inactive, Pin 16 open.
GND R (Pin 4): Ground of Red Channel Amplifier. This pin is not internally connected to other ground pins and must be connected externally to ground.

IN G (Pin 5): Green Channel Input. This pin has a nominal impedance of $450 \mathrm{k} \Omega$ with input bias circuit inactive, Pin 16 open.
GND G (Pin 6): Ground of Green Channel Amplifier. This pin is not internally connected to other ground pins and must be connected externally to ground.

IN B (Pin 7): Blue Channel Input. This pin has a nominal impedance of $450 \mathrm{k} \Omega$ with input bias circuit inactive, Pin 16 open.

GND B (Pin 8): Ground of Blue Channel Amplifier. This pin is not internally connected to other ground pins and must be connected externally to ground.

## PIn fUnCTIOnS

V+ B (Pin 9): Positive Supply Voltage of Blue Channel Amplifier. This pin is not internally connected to other supply voltage pins and must be externally connected to the supply voltage bus with proper bypassing. For best performance, see Power Supply Considerations.
OUT B (Pin 10): Blue Channel Output.
V+ G (Pin 11): Positive Supply Voltage of Green Channel Amplifier. This pin is not internally connected to other supply voltage pins and must be externally connected to the supply voltage bus with proper bypassing. For best performance, see Power Supply Considerations.

OUT G (Pin 12): Green Channel Output.
V+ R (Pin 13): Positive Supply Voltage of Red Channel Amplifier. This pin is not internally connected to other supply voltage pins and must be externally connected to
the supply voltage bus with proper bypassing. For best performance, see Power Supply Considerations.

OUT R (Pin 14): Red Channel Output.
V ${ }^{+}$(Pin 15): Positive Supply Voltage of Control Circuitry. This pin is not internally connected to other supply voltage pins and must be externally connected to supply voltage bus with proper bypassing. For best performance, see Power Supply Considerations.

BCV (Pin 16): Bias Control Voltage. A resistor connected between Pin 16 and Pin 2 (GND) will generate a DC voltage bias at the inputs of the three amplifiers for AC coupling application, see Programmable Input Bias.

Exposed Pad (Pin 17, DFN Package): Ground. This pad must be soldered to PCB and is internally connected to GND (Pin 2).

## APPLICATIONS INFORMATION

## Power Supply Considerations

The LT6558 is optimized to provide full video signal swing output when operated from a standard 5 V single supply. Due to the supply current involved in ultrahigh slew rate amplifiers like the LT6558, selection of the lowest workable supply voltage is recommended to minimize heat generation and simplify thermal management. Temperature rise at the internal devices ( $\mathrm{T}_{\mathrm{J}}$ ) must be kept below $150^{\circ} \mathrm{C}$ (SSOP package) or $125^{\circ} \mathrm{C}$ (DFN package), and can be estimated from the ambient temperature $\left(\mathrm{T}_{\mathrm{A}}\right)$ and power dissipation ( $\mathrm{P}_{\mathrm{D}}$ ) as follows:
$T_{J}=T_{A}+P_{D} \bullet 40^{\circ} \mathrm{C} / \mathrm{W}$ for DFN package
or
$T_{J}=T_{A}+P_{D} \cdot 110^{\circ} \mathrm{C} / \mathrm{W}$ for SSOP package
where $P_{D}=\left(I_{S}+0.5 \cdot I_{0}\right) \cdot V_{S(\text { TOTAL })}$
The latter equation assumes (conservatively) that the output swing is small relative to the supply and RMS load current $\left(I_{0}\right)$ is bidirectional (as with AC coupling).

The grounds are separately pinned for each amplifier to minimize crosstalk.

Operation from split supplies can be accomplished by connecting the LT6558 ground pins to the negative rail. With dual supplies, recommended voltages range from nominal $\pm 2.5 \mathrm{~V}$ to $\pm 3.3 \mathrm{~V}$.

The ultrahigh frequency (UHF) operating range of the LT6558 requires that careful printed circuit layout practices be followed to obtain maximum performance. Trace lengths between power pins and bypass capacitors should be minimized ( $<0.1$ inch) and one or more dedicated ground planes should be employed to minimize parasitic inductance. Poor layout or breadboarding methods can seriously impact amplifier stability, frequency response and crosstalk performance. A $2.2 \mu \mathrm{~F}$ and a $10 \mu \mathrm{~F}$ bypass capacitor is recommended for the LT6558 supply bus, plus a 10 nF high frequency bypass capacitor at each individual power pin.

## APPLICATIONS INFORMATION

## Programmable Input Bias

The LT6558 contains circuitry that provides a user-programmed bias voltage to the inputs of all three amplifier sections. The internal biasing feature is designed to minimize external component count in AC-coupled applications, but may be defeated if external biasing is desired. Figure 1 shows the simplified equivalent circuit feeding the noninverting input of each amplifier. A programming resistor from Pin 16 to GND (Pin2) establishes the nominal


Figure 1. Simplified Programmable Input Bias Circuit Diagram


Figure 2. Simplified Shutdown Circuit Diagram

(3a) Open Drain or Open Collector
no-signal amplifier input bias condition according to the following relationship:

$$
V_{\mathrm{BIAS}(\mathrm{IN})}=\frac{\mathrm{V}_{\mathrm{PIN16}} \bullet 9.1 \mathrm{k}}{\mathrm{R}_{\mathrm{SET}}}
$$

where VPIN16 $=0.044 \mathrm{~V}$ typical .
For single 5 V supply operation, a $158 \Omega$ programming resistor is generally optimal. In applications that demand maximum amplifier linearity, or if external biasing is preferred (in DC-coupled applications, for example), the internal biasing circuitry may be disabled by leaving Pin 16 open. With BCV (Pin 16) open, input loading is approximately $450 \mathrm{k} \Omega$.

## Shutdown Control

The LT6558 may be placed into a shutdown mode, where all three amplifier sections are deactivated and power supply draw is reduced to approximately $10 \mu \mathrm{~A}$. When the $\overline{\mathrm{EN}}$ pin is left open, an internal 40k pull-up resistor brings the pin to $\mathrm{V}^{+}$and the part enters the shutdown mode. Pulling the pin more than approximately 1.5 V below $\mathrm{V}^{+}$will enable the LT6558 (see Figure 2 for equivalent circuit). The pull-down current required to activate the part is typically $125 \mu \mathrm{~A}$. In most applications, the EN pin is simply connected to ground (for continuous operation) or driven directly by a CMOS-level logic gate (see Figure 3 for examples). Response time is typically 50 ns for enabling, and $1 \mu \mathrm{~s}$ for shutdown. In shutdown mode, the feedback resistors remain connected between the output pins and the individual ground (or $\mathrm{V}^{-}$connected) pins.

(3b) CMOS Gate with Shared Supply

Figure 3. Suitable Shutdown Pin Drive Circuits

## LT6558

## SIMPLIFIED SCHEMATIC (Single Amplifier Section)



## PACKAGG DESCRIPTION

GN Package
16-Lead Plastic SSOP (Narrow . 150 Inch)
(Reference LTC DWG \# 05-08-1641)

$\rightarrow \left\lvert\, \leftarrow \frac{.015 \pm .004}{(0.38 \pm 0.10)} \times 45^{\circ}\right.$


NOTE:


1. CONTROLLING DIMENSION: INCHES
2. DIMENSIONS ARE IN $\frac{\text { INCHES }}{\text { (MILLIMETERS) }}$
3. DRAWING NOT TO SCALE
*DIMENSION DOES NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.006" ( 0.152 mm ) PER SIDE
**DIMENSION DOES NOT INCLUDE INTERLEAD FLASH. INTERLEAD FLASH SHALL NOT EXCEED 0.010 " 0.254 mm ) PER SIDE

## PACKAGE DESCRIPTION

DHC Package
16-Lead Plastic DFN ( $5 \mathrm{~mm} \times 3 \mathrm{~mm}$ )
(Reference LTC DWG \# 05-08-1706)

recommended solder pad pitch and dimensions


## TYPICAL APPLICATION

## DC-Coupled Split Supply Operation



## RELATED PARTS

| PART NUMBER | DESCRIPTION | COMMENTS |
| :--- | :--- | :--- |
| LT1399 | 300MHz Triple Current Feedback Amplifier | 0.1dB Gain Flatness to 150MHz, Shutdown |
| LT1675 | 250MHz Triple RGB Multiplexer | 100MHz Pixel Switching, 1100V/ $\mu \mathrm{s}$ Slew Rate, 16-Lead SSOP |
| LT6550/LT6551 | 3.3V Triple and Quad Video Buffers | 110MHz Gain of 2 Buffers in MS Package |
| LT6553 | 650MHz Gain of 2 Triple Video Amplifier | Optimized for Driving 75 $\Omega$ Cables |
| LT6554 | 650MHz Gain of 1 Triple Video Amplifier | Performance Similar to the LT6553 with AV = 1, 16-Lead SSOP |
| LT6555 | 650MHz Gain of 2 Triple Video Multiplexer | Optimized for Driving 75 $\Omega$ Cables |
| LT6556 | 750MHz Gain of 1 Triple Video Multiplexer | High Slew Rate 2100V/ $\mu \mathrm{s}$ |
| LT6557 | 500MHz, Gain of 2 Triple Video Amplifier | Optimized for Single 5V Supply Driving 75 $\Omega$ Cables, High Slew Rate 2200V/ $\mu \mathrm{s}$ |
| LT6559 | Low Cost, 300MHz, Triple Video Amplifier | $3 \mathrm{~mm} \times 3 \mathrm{~mm}$ QFN Package |

