

250MHz, Triple and Single RGB Multiplexer with Amplifiers

FEATURES

- 100MHz Pixel Switching
- -3dB Bandwidth: 250MHz
- Channel Switching Time: 2.5ns
- Expandable to Larger Arrays
- Drives Cables Directly
- High Slew Rate: 1100V/μs
- Low Switching Transient: 50mV
- Shutdown Supply Current: 100μA
- Output Short-Circuit Protected
- Available in Small 16-Pin SSOP Package

APPLICATIONS

- RGB Switching
- Workstation Graphics
- Pixel Switching
- Coaxial Cable Drivers
- High Speed Signal Processing

DESCRIPTION

The LT[®]1675 is a high speed RGB multiplexer designed for pixel switching and fast workstation graphics. Included on chip are three SPDT switches and three current feedback amplifiers. The current feedback amplifiers drive double-terminated 50Ω or 75Ω cables and are

configured for a fixed gain of 2, eliminating six external gain setting resistors. The SPDT switches are designed to be break-before-make to minimize unwanted signals coupling to the input.

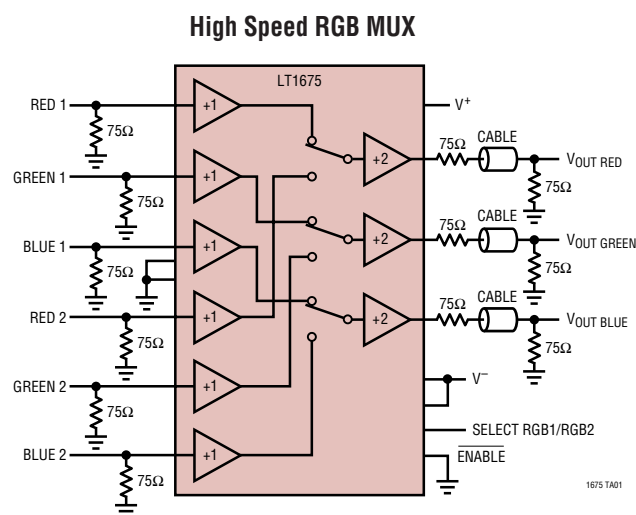
The LT1675-1 is a single version with two inputs, a single output and is ideal for a single channel application such as video sync.

The key to the LT1675 fast switching speed is Linear Technology's proprietary high speed bipolar process. This MUX can toggle between sources in excess of 100MHz, has a slew rate over 1000V/μs and has a -3dB bandwidth of 250MHz. Power supply requirements are ±4V to ±6V and power dissipation is only 300mW on ±5V, or 100mW for the LT1675-1. The expandable feature uses the disable pin to reduce the power dissipation to near 0mW in the off parts.

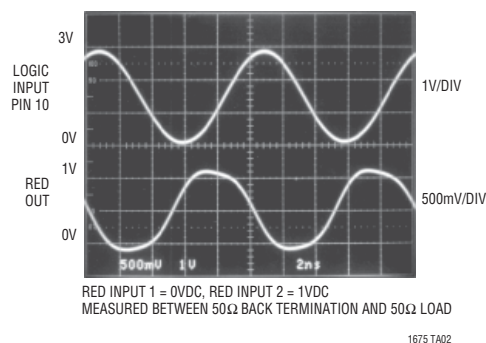
Unlike competitive solutions that are in bulky high pin count packages, the LT1675 is in a 16-lead narrow body SSOP. This small footprint, the size of an SO-8, results in a very clean high performance solution. The LT1675-1 is available in the tiny MSOP and the SO-8.

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TYPICAL APPLICATION



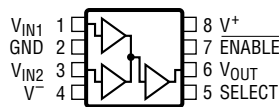
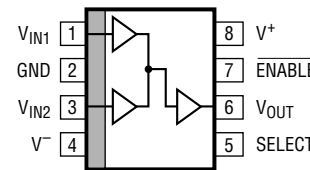
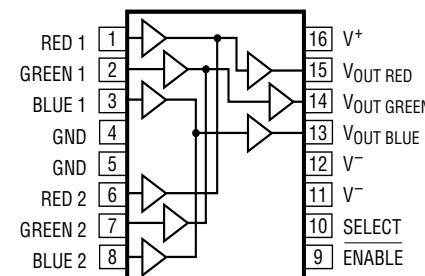
Clocking Between 2 DC Levels at 100MHz



ABSOLUTE MAXIMUM RATINGS (Note 1)

Supply Voltage	±6.3V	Operating Temperature Range (Note 3) ..	–40°C to 85°C
Inputs, ENABLE and SELECT, Current	±20mA	Storage Temperature Range	–65°C to 150°C
Output Short-Circuit Duration (Note 2)	Continuous	Junction Temperature (Note 4)	150°C
Specified Temperature Range	0°C to 70°C	Lead Temperature (Soldering, 10 sec)	300°C

PACKAGE/ORDER INFORMATION

<p>TOP VIEW</p>  <p>MS8 PACKAGE 8-LEAD PLASTIC MSOP</p> <p>$T_{JMAX} = 150^{\circ}C, \theta_{JA} = 250^{\circ}C/W$</p>		<p>TOP VIEW</p>  <p>S8 PACKAGE 8-LEAD PLASTIC SO</p> <p>$T_{JMAX} = 150^{\circ}C, \theta_{JA} = 150^{\circ}C/W$</p>		<p>TOP VIEW</p>  <p>GN PACKAGE 16-LEAD PLASTIC SSOP NARROW</p> <p>$T_{JMAX} = 150^{\circ}C, \theta_{JA} = 120^{\circ}C/W$</p>	
ORDER PART NUMBER	MS8 PART MARKING	ORDER PART NUMBER	S8 PART MARKING	ORDER PART NUMBER	GN PART MARKING
LT1675CMS8-1	LTX	LT1675CS8-1	16751	LT1675CGN	1675

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.

ELECTRICAL CHARACTERISTICS The ● denotes the specifications which apply over the specified temperature range, otherwise specifications are at $T_A = 25^\circ\text{C}$. $V_S = \pm 5\text{V}$, $R_L = \infty$, $V_{IN} = 0\text{V}$ LT1675 (Pins 1, 2, 3, 6, 7, 8), LT1675-1 (Pins 1, 3), $\text{ENABLE} = 0\text{V}$, unless otherwise specified.

PARAMETER		CONDITIONS		MIN	TYP	MAX	UNITS
Output Offset Voltage		Any Input Selected	●	20	50		mV
Output Offset Matching		Between Outputs R1 to R2, G1 to G2, B1 to B2	●	5	20		mV
Input Current		Any Input Selected	●	−12	−30		μA
Input Resistance		V _{IN} = ±1V	●	100	700		kΩ
PSRR		V _S =±2.6V to ±6V, Measured at Output	●	38	50		dB
DC Gain Error 0V to 1V		V _{IN} = 1V, R _L = ∞	●	3	6		%
		V _{IN} = 1V, R _L = 150Ω	●	4	8		%
		V _{IN} = 1V, R _L = 75Ω		5	10		%
DC Gain Error 0V to −1V		V _{IN} = −1V, R _L = ∞	●	3	6		%
		V _{IN} = −1V, R _L = 150Ω	●	4	8		%
		V _{IN} = −1V, R _L = 75Ω		8	20		%
Output Voltage		V _{IN} = 2V, R _L = ∞	●	3.1	3.4		V
		V _{IN} = 2V, R _L = 150Ω	●	2.7	3.0		V
		V _{IN} = 2V, R _L = 75Ω	●	2.4	2.8		V
		V _{IN} = −2V, R _L = ∞	●	−3.1	−3.3		V
		V _{IN} = −2V, R _L = 150Ω	●	−2.6	−3.0		V
		V _{IN} = −2V, R _L = 75Ω	●	−2.3	−2.6		V
Disabled Output Impedance		ENABLE Open	●	1.1	1.5	2.0	kΩ
Maximum Output Current		V _{IN} = ±1V, V _O = 0V	●	50	70		mA
Supply Current	LT1675	ENABLE = 0V	●	25	33	42	mA
		ENABLE = 4.7V	●		1	100	μA
	LT1675-1	ENABLE = 0V	●	8	11	14	mA
		ENABLE = 4.7V	●		0.3	33	μA
ENABLE Pin Current	LT1675	ENABLE= 0V	●	450	600		μA
	LT1675-1	ENABLE= 0V	●	150	200		μA
SELECT Pin Current	LT1675	SELECT = 0V	●	90	180		μA
	LT1675-1	SELECT = 0V	●	30	60		μA
SELECT Low		SELECT (See Truth Table)	●		0.8		V
SELECT High		SELECT (See Truth Table)	●	2			V

LT1675/LT1675-1

AC CHARACTERISTICS

$T_A = 25^\circ\text{C}$. $V_S = \pm 5\text{V}$, $R_L = 150\Omega$, $V_{IN} = 0\text{V}$ LT1675 (Pins 1, 2, 3, 6, 7, 8), LT1675-1 (Pins 1, 3), $\overline{\text{ENABLE}} = 0\text{V}$, unless otherwise specified.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Slew Rate	$V_{OUT} = 5V_{P-P}$		1100		V/ μs
Full Power Bandwidth (Note 5)	$V_{OUT} = 6V_{P-P}$		58		MHz
Small-Signal -3dB Bandwidth	Less Than 1dB Peaking		250		MHz
Gain Flatness	Less Than 0.1dB		70		MHz
Gain Matching	R to G to B R1 to R2, G1 to G2, B1 to B2, LT1675-1 V_{IN1} to V_{IN2}	0.10 0.01			dB dB
Channel-to-Channel Select Time	R1 = 0V, R2 = 1V		5.0		ns
Delay Time	Measured from Time SELECT Pin Crosses Logic Threshold		2.5		ns
Switching Time	Time for V_{OUT} to Go from 0V to 1V				
Enable Time			10		ns
Disable Time			100		ns
Input Pin Capacitance			2		pF
SELECT Pin Capacitance	LT1675		2.2		pF
	LT1675-1		1.5		pF
$\overline{\text{ENABLE}}$ Pin Capacitance	LT1675		2.1		pF
	LT1675-1		1.5		pF
Output Pin Capacitance (Disabled)	$\overline{\text{ENABLE}}$ Open		4.4		pF
Small-Signal Rise Time	$V_{IN} = 300\text{mV}_{P-P}$, $R_L = 100\Omega$		1.85		ns
Propagation Delay	$V_{IN} = 300\text{mV}_{P-P}$, $R_L = 100\Omega$		3		ns
Overshoot	$V_{IN} = 300\text{mV}_{P-P}$, $R_L = 100\Omega$		10		%
On-Channel to Off-Channel Crosstalk	Measured at 10MHz		60		dB
Chip Disable Crosstalk	Measured at 10MHz, $\overline{\text{ENABLE}}$ Open		90		dB
Channel Select Output Transient	Measured Between Back Termination and Load		50		mV $_{P-P}$
Differential Gain (Note 6)			0.07		%
Differential Phase (Note 6)			0.05		DEG

Note 1: Absolute Maximum Ratings are those values beyond which the life of a device may be impaired.

Note 2: May require a heat sink.

Note 3: The LT1675/LT1675-1 are guaranteed to meet specified performance from 0°C to 70°C and are designed, characterized and expected to meet these extended temperature limits, but are not tested at -40°C and 85°C . Guaranteed I grade parts are available; consult factory.

Note 4: T_J is calculated from the ambient temperature T_A and power dissipation P_D according to the following formula:

$$\text{LT1675CGN: } T_J = T_A + (P_D)(120^\circ\text{C/W})$$

$$\text{LT1675CMS8-1: } T_J = T_A + (P_D)(250^\circ\text{C/W})$$

$$\text{LT1675CS8-1: } T_J = T_A + (P_D)(150^\circ\text{C/W})$$

Note 5: Full power bandwidth is calculated from the slew rate measurement:

$$\text{FPBW} = \text{SR}/2\pi V_{PEAK}$$

Note 6: Differential Gain and Phase are measured using a Tektronix TSG120 YC/NTSC signal generator and a Tektronix 1780R Video Measurement Set. The resolution of this equipment is 0.1% and 0.1° . Nine identical MUXs were cascaded giving an effective resolution of 0.011% and 0.011° .

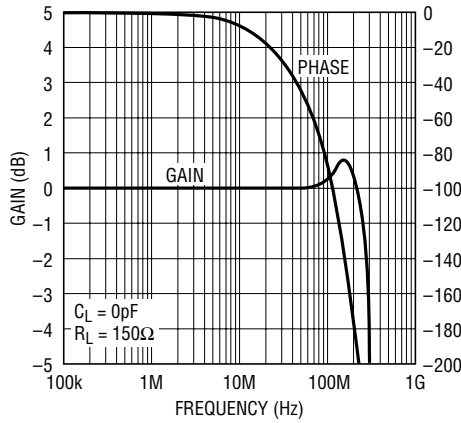
Truth Table

SELECT	$\overline{\text{ENABLE}}$	LT1675			LT1675-1
		RED OUT	GREEN OUT	BLUE OUT	VOUT
1	0	RED 1	GREEN 1	BLUE 1	VIN1
0	0	RED 2	GREEN 2	BLUE 2	VIN2
X	1	OFF	OFF	OFF	OFF

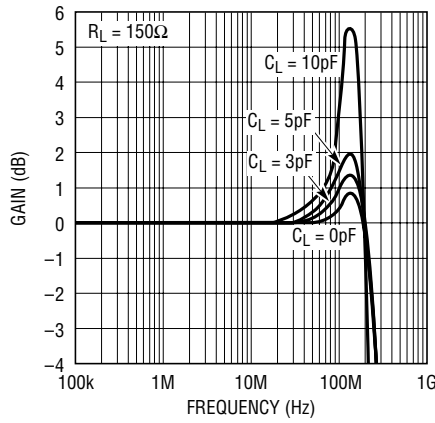
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TYPICAL PERFORMANCE CHARACTERISTICS

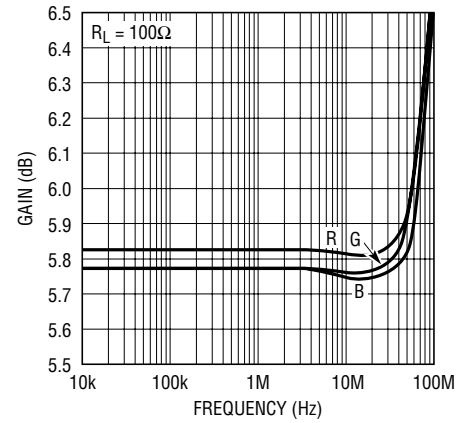
Gain and Phase vs Frequency



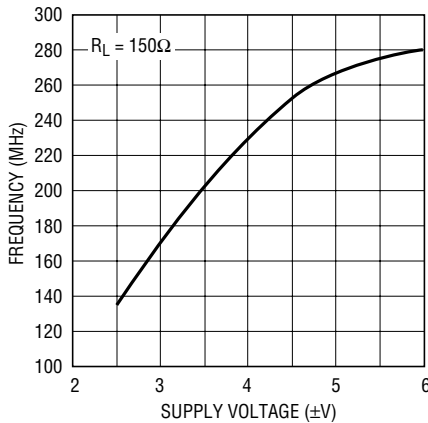
Frequency Response with Capacitive Loads



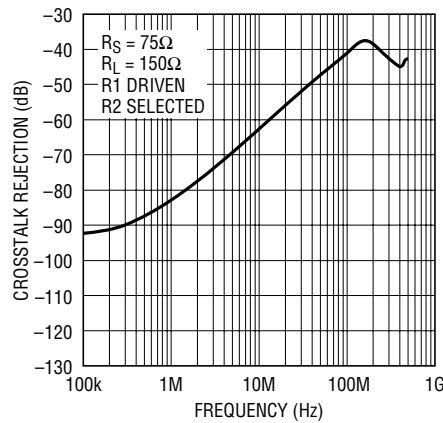
Gain vs Frequency



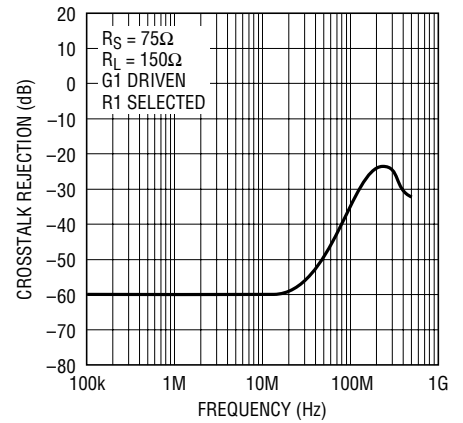
-3dB Bandwidth vs Supply Voltage



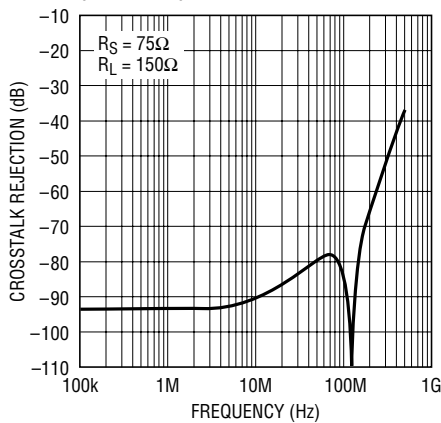
Crosstalk Rejection vs Frequency



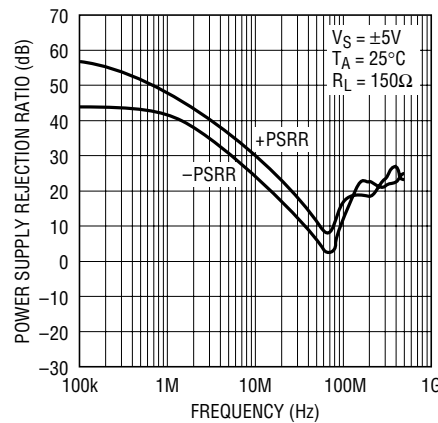
Crosstalk Rejection vs Frequency



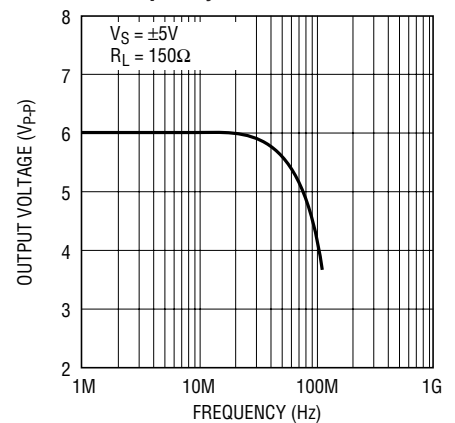
Crosstalk Rejection vs Frequency (Disabled)



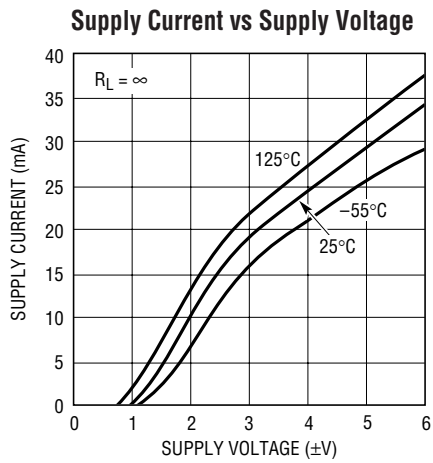
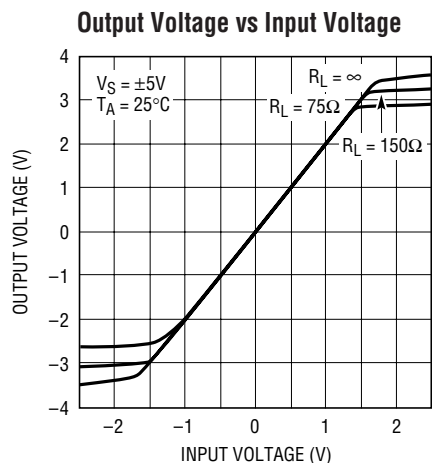
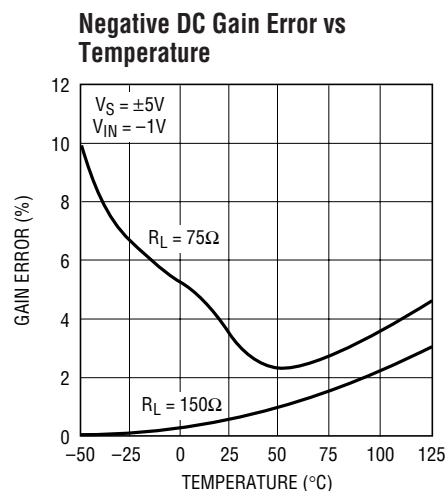
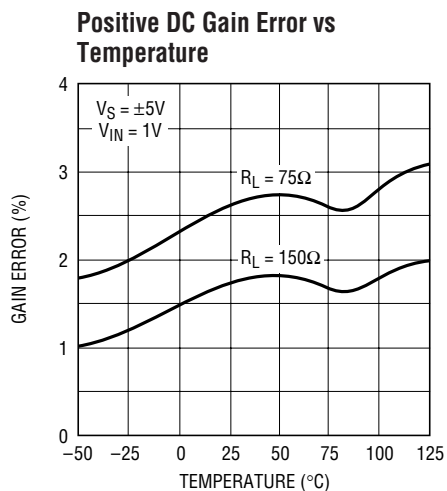
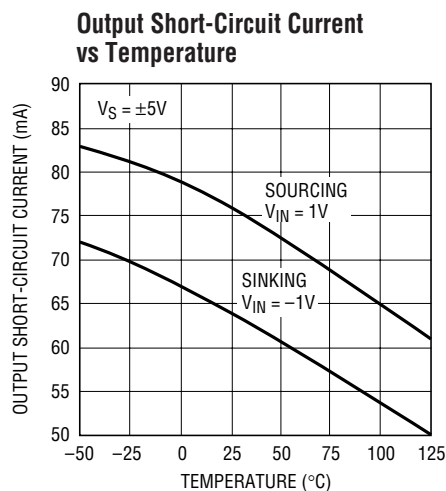
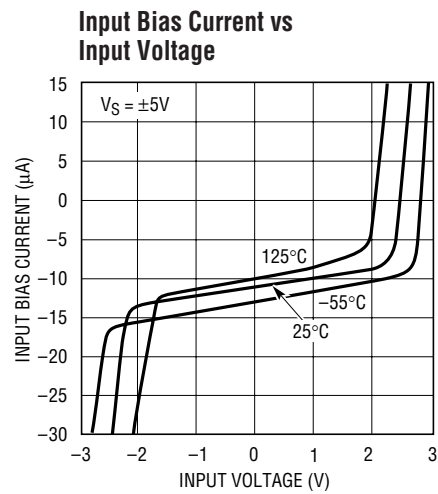
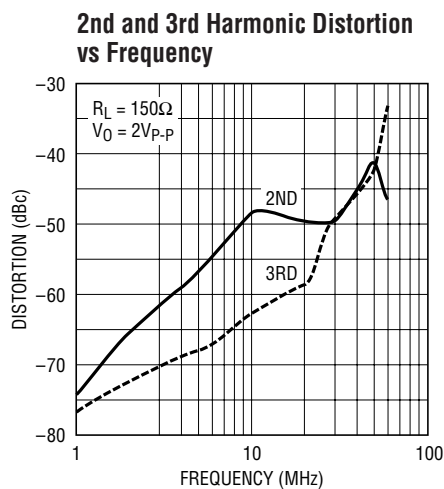
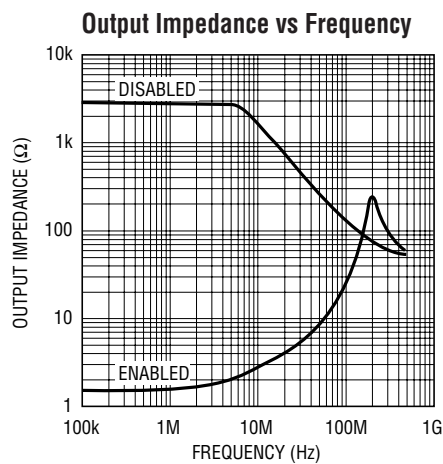
Power Supply Rejection Ratio vs Frequency



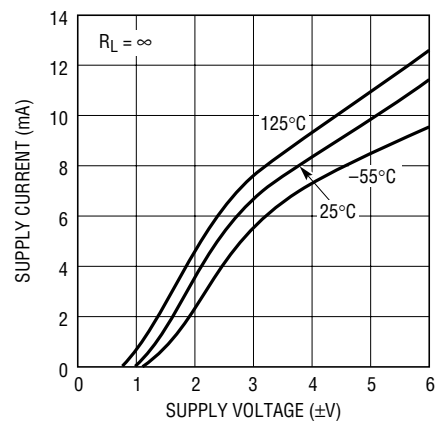
Undistorted Output Swing vs Frequency



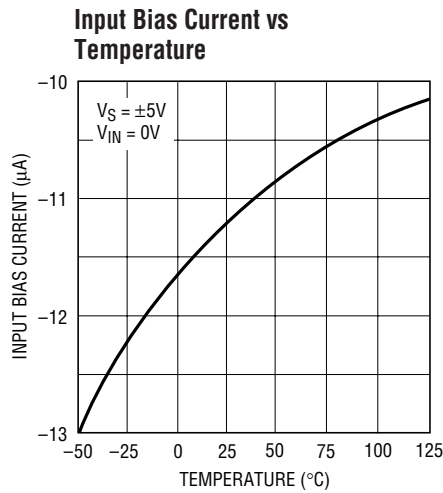
TYPICAL PERFORMANCE CHARACTERISTICS



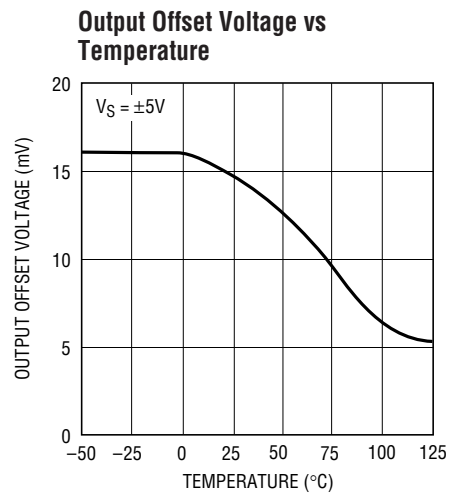
LT1675-1 Supply Current vs Supply Voltage



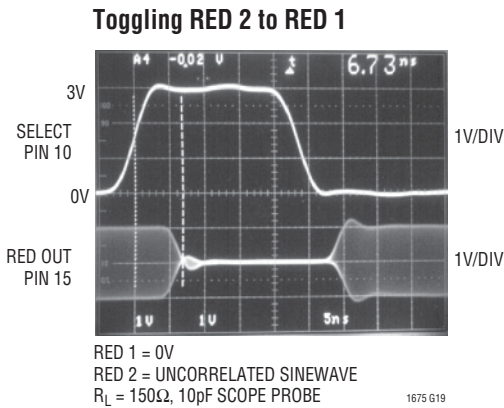
TYPICAL PERFORMANCE CHARACTERISTICS



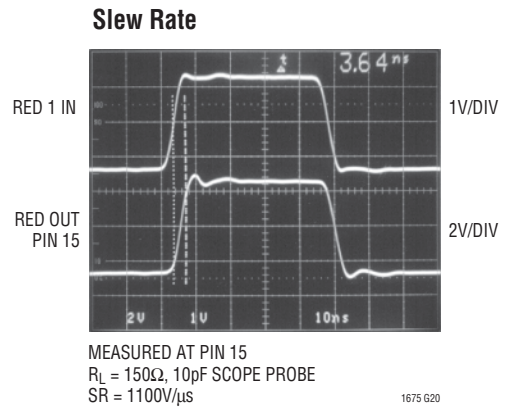
1675 G17



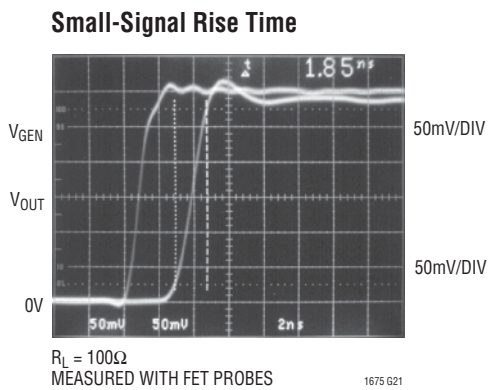
1675 G18



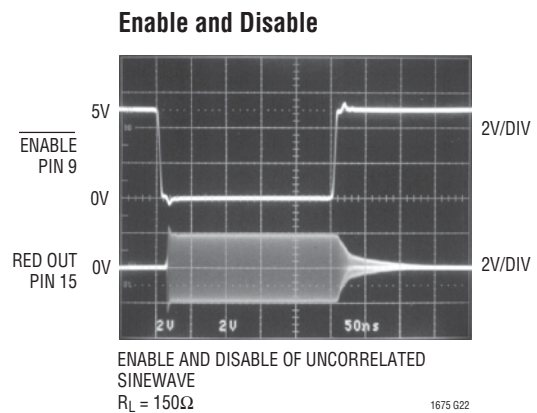
1675 G19



1675 G20



1675 G21



1675 G22

PIN FUNCTIONS

LT1675

RED 1 (Pin 1): Red 1 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ RED}$ will clip. The input must be terminated.

GREEN 1 (Pin 2): Green 1 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ GREEN}$ will clip. The input must be terminated.

BLUE 1 (Pin 3): Blue 1 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ BLUE}$ will clip. The input must be terminated.

GND (Pins 4, 5): Signal Ground. Connect to ground plane.

RED 2 (Pin 6): Red 2 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ RED}$ will clip. The input must be terminated.

GREEN 2 (Pin 7): Green 2 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ GREEN}$ will clip. The input must be terminated.

BLUE 2 (Pin 8): Blue 2 Input. The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, $V_{OUT\ BLUE}$ will clip. The input must be terminated.

ENABLE (Pin 9): Chip Enable. Ground this pin for normal operation. Take this pin to within 300mV of V^+ , or open to shut down the part. This pin is also used for router applications. When the part is disabled, the supply current is 1 μ A.

LT1675-1

V_{IN1} (Pin 1): The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, V_{OUT} will clip. The input must be terminated.

GND (Pin 2): Signal Ground. Connect to ground plane.

V_{IN2} (Pin 3): The 1V video input signal to be switched is applied to this pin. If 2V is applied to this pin, V_{OUT} will clip. The input must be terminated.

V^- (Pin 4): Connect this pin to -5V and bypass with good tantalum capacitor (4.7 μ F). The pin may also require a 0.1 μ F or 0.01 μ F depending on layout.

SELECT (Pin 5): Use this pin to select V_{IN1} or V_{IN2} . Use this pin for fast toggling. HIGH Selects V_{IN1} .

SELECT (Pin 10): Channel Select. Use this pin to select between RGB1 inputs and RGB2 inputs. Use this pin for fast toggling. HIGH Selects RGB1.

V^- (Pins 11, 12): Negative Power Supply. Connect these pins to -5V and bypass with a good tantalum capacitor (4.7 μ F). The pin may also require a 0.1 μ F or 0.01 μ F depending on layout.

$V_{OUT\ BLUE}$ (Pin 13): Blue Output. It is twice BLUE 1 or BLUE 2 depending on which channel is selected by Pin 10. $V_{OUT\ BLUE}$ drives 50 Ω or 75 Ω double-terminated cables. Do not add capacitance to this pin.

$V_{OUT\ GREEN}$ (Pin 14): Green Output. It is twice GREEN 1 or GREEN 2 depending on which channel is selected by Pin 10. $V_{OUT\ GREEN}$ drives 50 Ω or 75 Ω double-terminated cables. Do not add capacitance to this pin.

$V_{OUT\ RED}$ (Pin 15): Red Output. It is twice RED 1 or RED 2 depending on which channel is selected by Pin 10. $V_{OUT\ RED}$ drives 50 Ω or 75 Ω double-terminated cables. Do not add capacitance to this pin.

V^+ (Pin 16): Positive Power Supply. Connect this pin to 5V and bypass with a good tantalum capacitor (4.7 μ F). The pin may also require a 0.1 μ F or 0.01 μ F depending on layout.

V_{OUT} (Pin 6): It is twice V_{IN1} or V_{IN2} depending on which channel is selected by Pin 5. V_{OUT} drives 50 Ω or 75 Ω double-terminated cables. Do not add capacitance to this pin.

ENABLE (Pin 7): Ground this pin for normal operation. Take this pin to within 300mV of V^+ , or open to shut down the part. This pin is also used for router applications. When the part is disabled, the supply current is 0.3 μ A.

V^+ (Pin 8): Connect this pin to 5V and bypass with a good tantalum capacitor (4.7 μ F). The pin may also require a 0.1 μ F or 0.01 μ F depending on layout.

APPLICATIONS INFORMATION

Power Supplies

The LT1675 will function with supply voltages below $\pm 2V$ (4V total), however, to ensure a full $1V_{P-P}$ video signal ($2V_{P-P}$ at the output pins), the power supply voltage should be between $\pm 4V$ to $\pm 6V$. The LT1675 is designed to operate on $\pm 5V$, and at no time should the supplies exceed $\pm 6V$. The power supplies should be bypassed with quality tantalum capacitors. It may be necessary to add a $0.01\mu F$ or $0.1\mu F$ in parallel with the tantalum capacitors if there is excessive ringing on the output waveform. Even though the LT1675 is well behaved, bypass capacitors should be placed as close to the LT1675 as possible.

Smallest Package and PC Board Space

The LT1675 has the internal gain set for $+2V/V$ or 6dB, because it is designed to drive a double-terminated 50Ω or 75Ω cable that has an inherent 6dB loss. There are several advantages to setting the gain internally. This topology eliminates six gain set resistors, reduces the pin count of the package and eliminates stray capacitance on the sensitive feedback node. The LT1675 fits into the small

SSOP package, and these advantages lead to the smallest PC board footprint with enhanced performance. The LT1675-1 eliminates two gain set resistors and is available in the tiny MSOP package and the cost-effective SO-8 package.

Fast Switching

The key to the LT1675 fast switching speed is Linear Technology's proprietary high speed bipolar process. Internal switches can change state in less than 1ns, but the output of the MUX switches in about 2.5ns, as shown in Figure 1. The additional delay is due to the finite bandwidth and the slew rate of the current feedback amplifier that drives the cable.

For minimum ringing, it is important to minimize the load capacitance on the output of the part. This is normally not a problem in a controlled impedance environment, but stray PC board capacitance and scope probe capacitance can degrade the pulse fidelity. Figure 2 shows the response of the output to various capacitive loads measured with a 10pF scope probe.

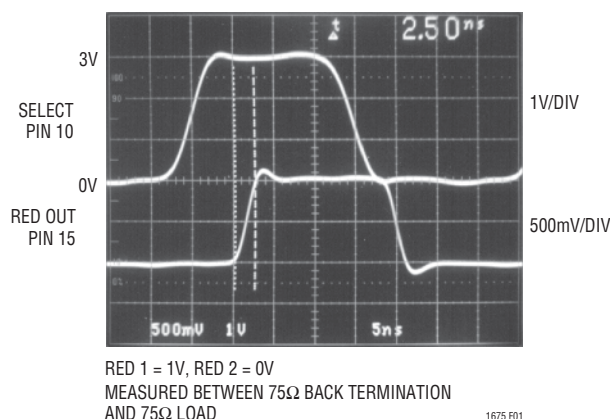


Figure 1. Toggling at 25MHz

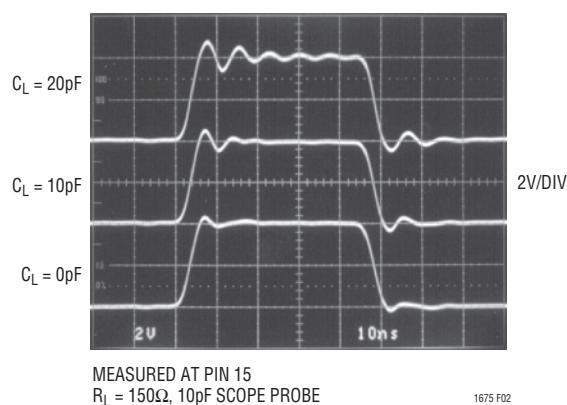


Figure 2. Response to Capacitive Loads

APPLICATIONS INFORMATION

Switching Transients

This MUX includes fast current steering break-before-make SPDT switches that minimize switching glitches. The switching transients of Figure 3 are input-referred (measured between 75Ω back termination and the 75Ω load). The glitch is only 50mV_{P-P} and the duration is just 5ns. This transient is small and fast enough to not be visible on quality graphics terminals. Additionally, the break-before-make SPDT switch is open before the alternate channel is connected. This means there is no input feedthrough during switching. Figure 4 shows the amount of alternate channel that is coupled at the input.

Expanding Inputs

In video routing applications where the ultimate speed is not mandatory, as it is in pixel switching, it is possible to expand the number of MUX inputs by shorting the LT1675 outputs together and switching with the ENABLE pins. The internal gain set resistors have a nominal value of 750Ω and cause a 1500Ω shunt across the 75Ω cable termination. Figure 5 shows schematically the effect of expanding the number of inputs. The effect of this loading is to cause a gain error that can be calculated by the following formula:

$$\text{Gain Error (dB)} = 6\text{dB} + 20\log \left(\frac{\frac{1575\Omega}{n-1} \parallel 75\Omega}{75 + \frac{1575\Omega}{n-1} \parallel 75\Omega} \right) \text{dB}$$

where n is total number of LT1675s. For example, using ten LT1675s (20 Red, 20 Green and 20 Blue) the Gain Error is only -1.7dB per channel.

Figure 6 shows a 4-input RGB router. The response from RED 1 Input to Red Output is shown in Figure 7 for a 25MHz square wave with Chip Select = 0V. In this case the Gain Error is -0.23dB. Toggling with Chip Select between IC #1 and IC #2 is shown in Figure 8. In this case RED 1 Input is connected to 0V and RED 3 Input is connected to an uncorrelated sinewave.

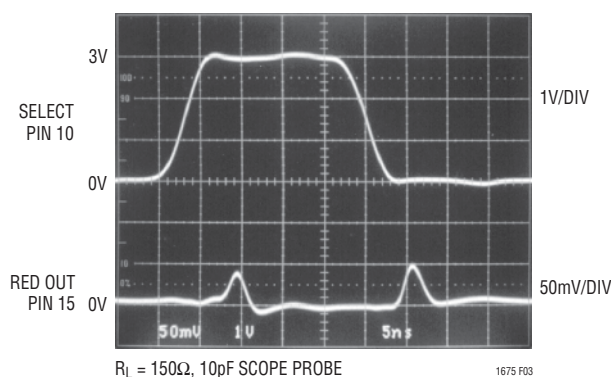


Figure 3. Input-Referred Switching Transient

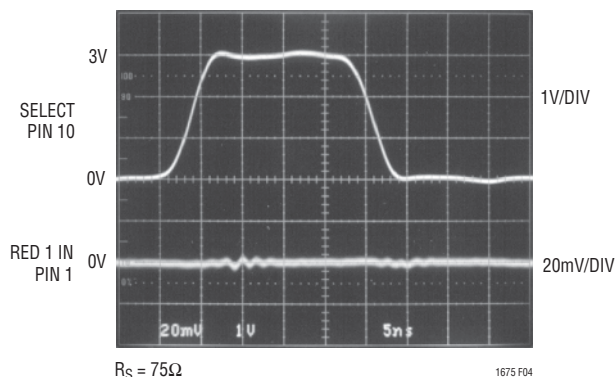
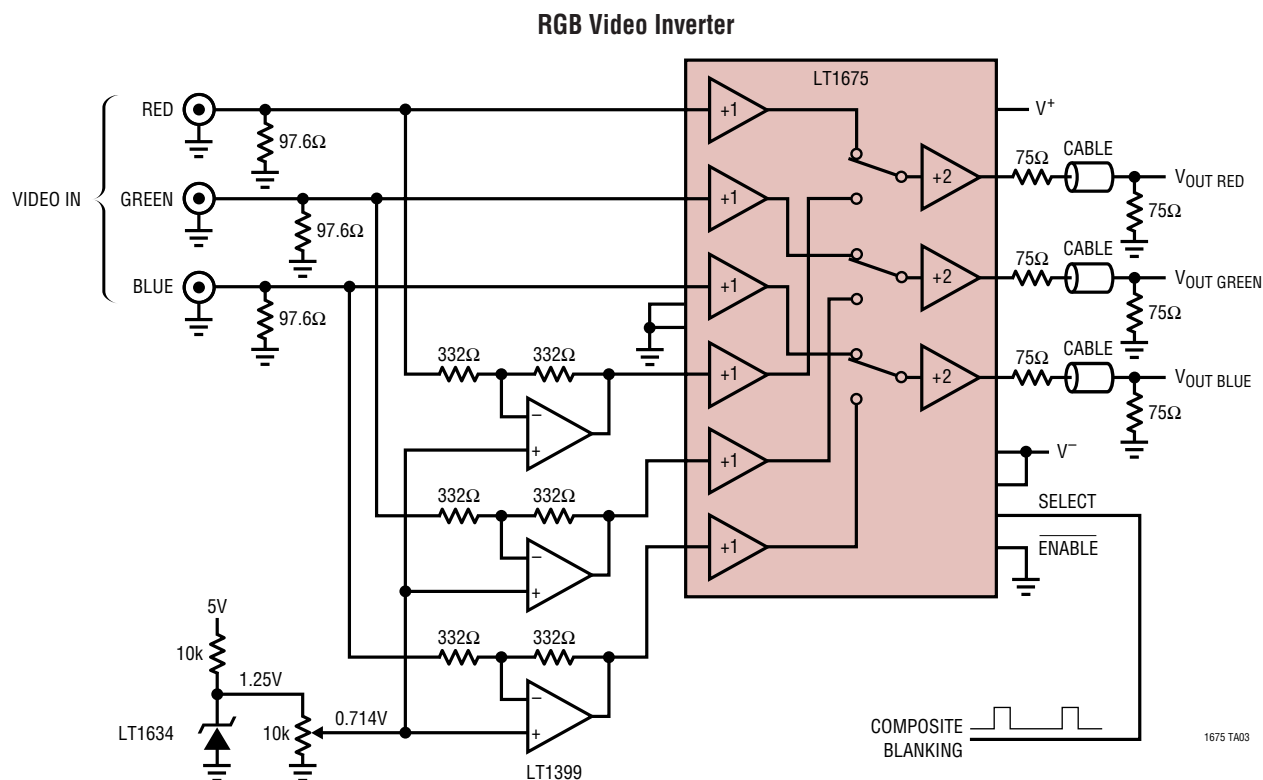


Figure 4. Switching Transient at RED 1 (Pin 1)

TYPICAL APPLICATIONS

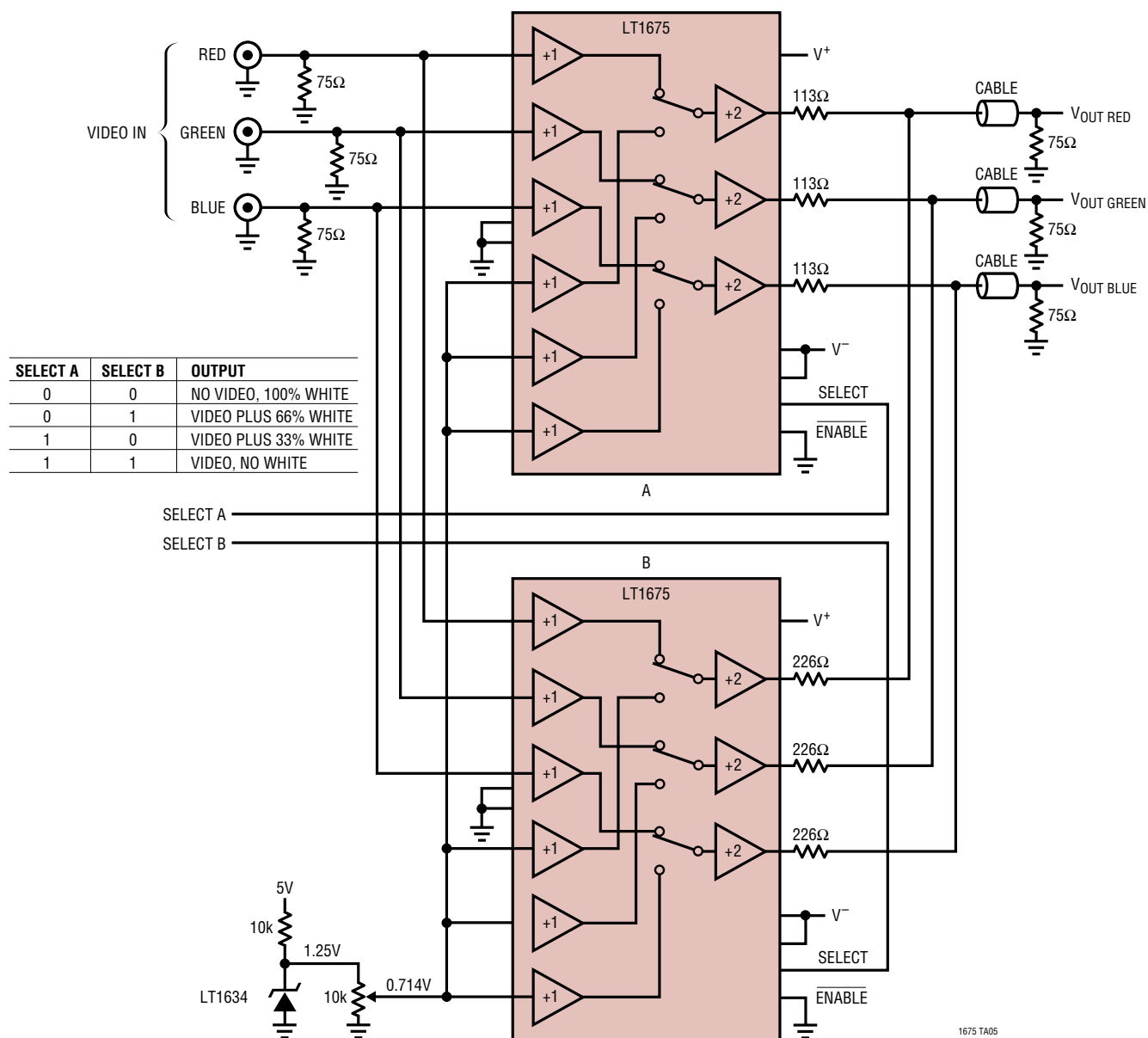


This circuit is useful for viewing photographic negatives on video. A single channel can be used for composite or monochrome video. The inverting amplifier stages are only switched in during active video so the blanking, sync

and color burst (if present) are not disturbed. To prevent video from swinging negative, a voltage offset equal to the peak video signal is added to the inverted signal.

TYPICAL APPLICATIONS

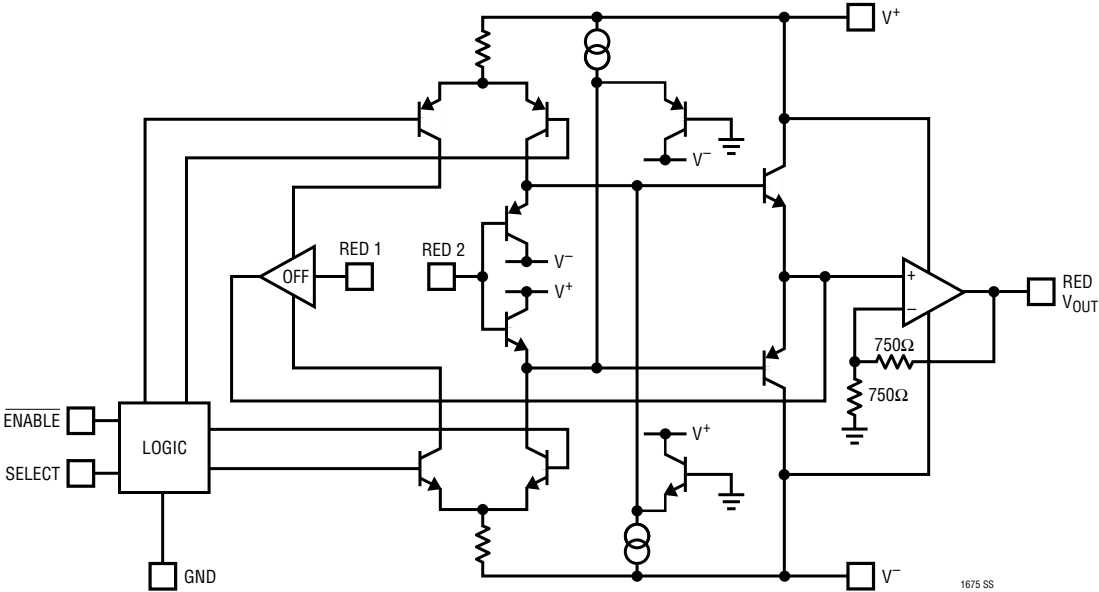
Logo or “Bug” Inserter



This circuit highlights a section of the picture under control of a synchronous key signal. It can be used for adding the logo (also called a “bug”) you see in the bottom corner of commercial television pictures or any sort of overlay signal, such as a crosshair or a reticule. The key signal has 2 bits of control so there can be four levels of highlighting: unmodified video, video plus 33% white, video plus 66% white and 100% white. The two LT1675s are configured as a 2-bit DAC. The resistors on the outputs

set the relative bit weights. The output of the LT1675 labeled B in the schematic is one half the weight of the A device. To properly match the 75Ω video cable, the output resistors are selected so the parallel combination of the two is 75 ohms. The output will never exceed peak white, which is 0.714V for this NTSC-related RGB video. The reference white signal is adjustable to lower than peak white to make the effect less intrusive, if desired.

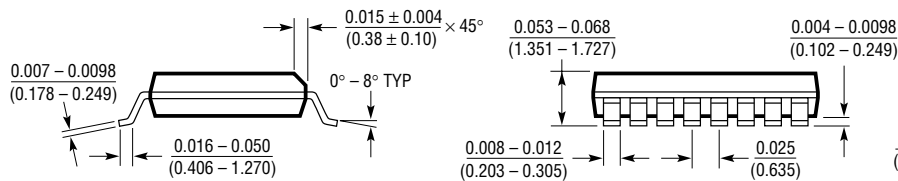
SIMPLIFIED SCHEMATIC (LT1675-1, LT1675 One Channel)



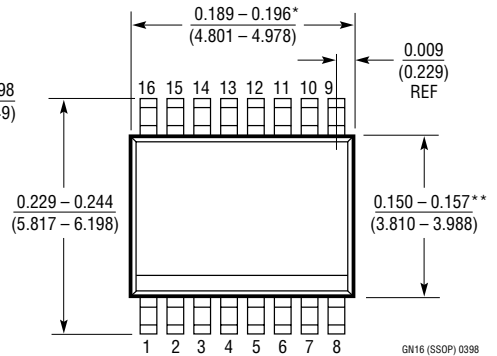
PACKAGE DESCRIPTION

Dimensions in inches (millimeters) unless otherwise noted.

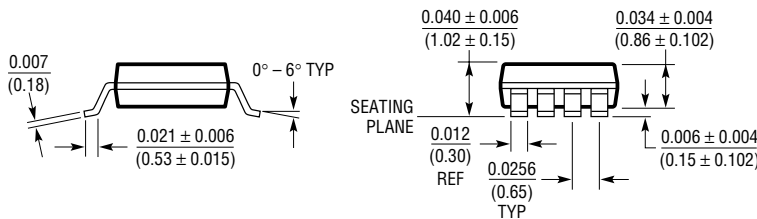
GN Package 16-Lead Plastic SSOP (Narrow 0.150) (LTC DWG # 05-08-1641)



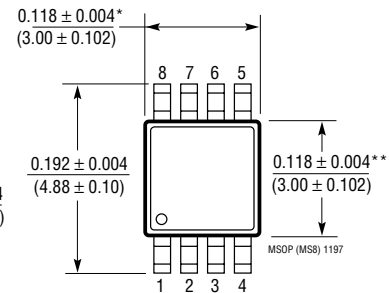
- * DIMENSION DOES NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE
- ** DIMENSION DOES NOT INCLUDE INTERLEAD FLASH. INTERLEAD FLASH SHALL NOT EXCEED 0.010" (0.254mm) PER SIDE



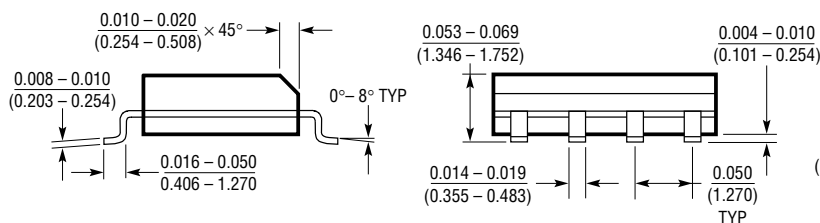
MS8 Package 8-Lead Plastic MSOP (LTC DWG # 05-08-1660)



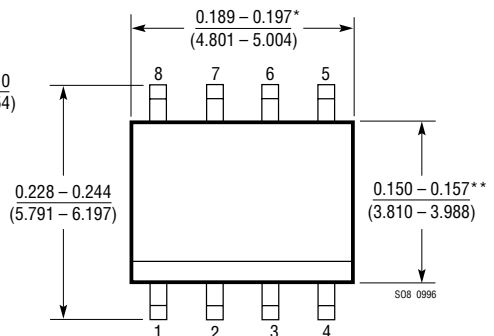
- * DIMENSION DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE
- ** DIMENSION DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE



S8 Package 8-Lead Plastic Small Outline (Narrow 0.150) (LTC DWG # 05-08-1610)

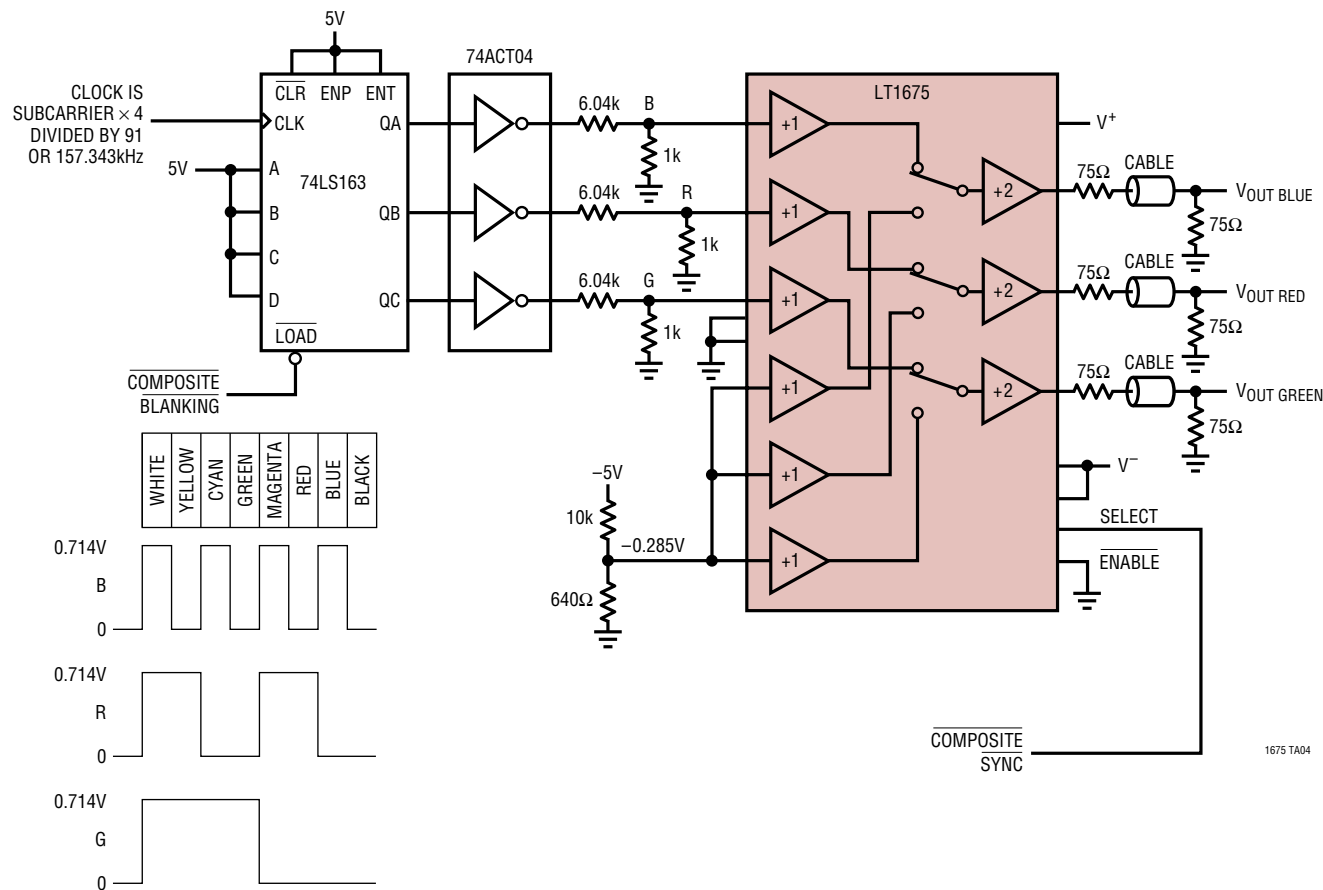


- * DIMENSION DOES NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.006" (0.152mm) PER SIDE
- ** DIMENSION DOES NOT INCLUDE INTERLEAD FLASH. INTERLEAD FLASH SHALL NOT EXCEED 0.010" (0.254mm) PER SIDE



TYPICAL APPLICATION

NTSC-Related Color Bar Generator



An RGB color bar test pattern is easily generated by dividing down a suitable clock. To form a stable pattern, the clock must be synchronous with the horizontal scan rate. Four times subcarrier, or 14.318MHz, is a readily available frequency, which when divided by 91, gives 157.343KHz. Dividing this signal by two, four and eight, gives the blue, red and green signals, respectively. This timing gives eight bars including white and black that fill the 52.6μs active video time. The digital signals are run

through a 74ACT04 inverter because the CMOS output swings rail-to-rail. The inverter output is scaled to make video (0.714V peak, for NTSC-related RGB). The LT1675 drives the cable and adds sync to the RGB signals by switching in -0.286V. If no sync is required, this voltage can be set to zero and composite blanking can be used to drive the select pin of the LT1675 in order to provide a more precise blanking level.

RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS
LT6555	650 MHz RGB Multiplexing Amplifier	2200V/μs Slew Rate, 2:1 Input MUX
LT1203/LT1205	150MHz Video MUX	2-Input and 4-Input, 90dB Channel Separation, Wide Supply Range
LT1204	4-Input Video MUX with 75MHz Current Feedback Amp	Drives Cables, Adjustable Gain, 90dB Channel Separation
LT1260	Low Cost Dual and Triple 130MHz Current Feedback Amp with Shutdown	Drives Cables, Wide Supply Range, 0μA Shutdown Current
LT1398/LT1399	Low Cost Dual and Triple 300MHz Current Feedback Amp with Shutdown	Performance Upgrade for the LT1259/LT1260

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[LT1675CMS8-1#PBF](#)