

TS3USBA225RUTR

Analog Switch/Analog Multiplexer Dual 1:3 12-Pin UQFN T/R

Manufacturer:	Texas Instruments, Inc	
Package/Case:		TS3USBA225RUTR Image
Product Type:		Images are for reference only
		Inquiry
RoHS:	RoHS Compliant/Lead free RoHS	
Lifecvcle:	Active	

General Description

The TS3USBA225 is a 2-channel single-pole triple-throw (SP3T) multiplexer that supports USB 2.0 High-Speed (480 Mbps) signals in all 3 differential channels. The first two high-speed differential channels also support Mobile High Definition Link (MHL) signaling with resolution and video frame rates up to 720p, 60 fps and 1080i, 30 fps. The remaining differential channel can also be used as an audio switch that is designed to allow analog audio signals to swing negatively. This configuration allows the system designer to use a common connector for audio and USB 2.0 or MHL data.

The TS3USBA225 has a VCC range of 2.7 V to 5.0 V with the capability to pass true-ground audio signals down to -1.8 V. The device also supports a power-down mode that can be enabled when both SEL1 and SEL2 controls are low to minimize current consumption when no signal is transmitting. The TS3USBA225 also features internal shunt resistors on the audio path to reduce clicks and pops that may be heard when the audio switches are selected.

Key Features

2.7-V to 5.0-V Operating Power Supply (VCC)

MHL/High-Speed USB (480 Mbps) Switch: V I/O Accepts Signals up to 4.5 V (Independent of VCC)

6.5 ? rON Typical

3 pF CON Typical

1.9 GHz Bandwidth (-3 dB)

Audio Switch: 2.5 ? rON Typical

Negative Rail Capability down to -1.8 V

Low THD: < 0.05%

Internal Shunt Resistors for Click-and-Pop Reduction

1.8-V Compatible Control Input (SEL1 and SEL2) Threshold

Minimized Current Consumption (\sim 5 μA) in Power-Down Mode

Power-Off Protection: All I/O Pins are High-Z when VCC= 0 V

12-Pin QFN Package (2 mm × 1.7 mm, 0.4 mm Pitch)

ESD Performance Tested per JESD 22 2000 V Human-Body Model(A114-B, Class II)

1000 V Charged-Device Model (C101)









Recommended For You

TS5A22362DGSR

Texas Instruments, Inc

MSOP10

TS3USB221RSER

Texas Instruments, Inc

UQFN10

TS3A27518EIRTWRQ1

Texas Instruments, Inc

WQFN-24

TS3A27518ETRTWRQ1

Texas Instruments, Inc

WQFN-24

TS3USB221AQRSERQ1

Texas Instruments, Inc

UQFN10

TS3L110PWR

Texas Instruments, Inc

TSSOP16

TS3L110DBQR

Texas Instruments, Inc

SSOP16

TS5A3357DCUT

Texas Instruments, Inc

VSSOP-8

TS5A3159ADCKT

Texas Instruments, Inc

SC70-6

TS5A23166DCUR

Texas Instruments, Inc

VSSOP8

TS5A3159ADBVR

Texas Instruments, Inc

SOT23-6

TS5A3159QDBVRQ1

Texas Instruments, Inc

SOT23-6

TS3A4741DGKR

Texas Instruments, Inc

MSOP8

TS3A27518EPWR

Texas Instruments, Inc

TSSOP24

DS25CP114TSQE

Texas Instruments, Inc

Email: sales@avaq.com

QFN