

Typical Applications

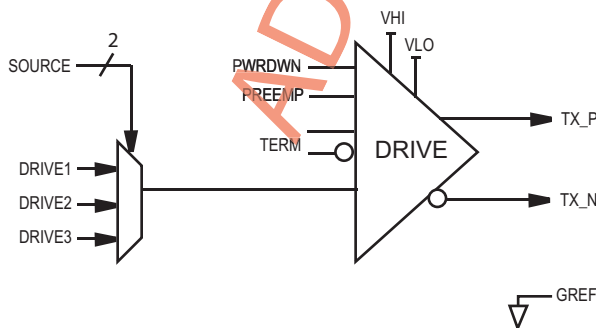
The TRFS-404 is a pin electronics driver core circuit for use in such applications as:

- Automatic test equipment
- Instrumentation

Product Overview

The TRFS-404 driver is a pin electronics solution for automatic test equipment and instrumentation applications. The driver has high-speed input and high-speed output for signals from DC to more than 5GHz, terminated at 50Ω (100Ω differential). The driver has low offset and high linearity, with programmable preemphasis up to 40%. A 100MHz termination mode permits both output pins to float to a common termination voltage. This core circuitry can be easily integrated with other circuits as well as packaged individually in a leadless chip carrier.

Block Diagram



Key Features

- Pin electronics driver
- High-speed signals with 50Ω (100Ω differential) termination from DC to more than 5GHz
- High linearity with preemphasis
- Output voltage range of 0 to 2.5V

Performance Summary

Item	Unit	Typical
DC Parameters		
VHI/VLO Offset	mV	<5
VHI/VLO Gain		>0.98 <1.01
VHI/VLO Linearity	mV	<2
VHI/VLO Crosstalk	mV	<4
Programmable Preemphasis	%	0
Transient Parameters		
Propagation Delay	ps	60
Differential Rise/Fall Time (400 mV terminated)	ps	
Toggle Rate	GHz	>8
TERM Rise Time	ps	200
TERM Fall Time	ps	300
Return Loss @ 5GHz	dB	-8.25

ADVANCE INFORMATION

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