

Typical Applications

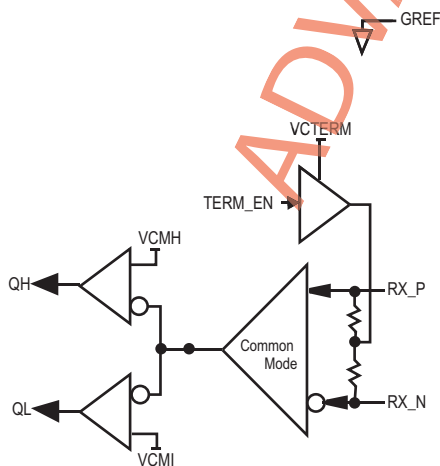
The TRFS-403 is a dual common-mode comparator core circuit, designed for use in such applications as:

- Automatic test equipment
- Instrumentation

Product Overview

The TRFS-403 dual common-mode comparator is a pin electronics solution for automatic test equipment and instrumentation applications. The comparator has high-speed input and high-speed output for signals up to 5GHz, terminated at 50Ω. The comparator has an input range of 0 to 2.5V with equivalent input rise time of 235ps. 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 dual common-mode comparator
- High-speed common-mode signals with 50Ω termination up to 5GHz
- Input voltage range of 0 to 2.5V
- Common-mode input equivalent rise time of 235ps

Performance Summary

Item	Unit	Min	Typical	Max	Notes
Input Common Mode Voltage Range	V	0		2.5	
Common Mode Output Voltage	V	1.13	1.16	1.18	With 50 Ω load
Maximum Toggle Rate	GHz	5			
Minimum Pulse Width	ps			100	
Equivalent Input Rise Time (CM)	ps		235		
CM Compare Propagation Delay					
Slew Rate	ps		50		
Overdrive	ps		45		

ADVANCE INFORMATION

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