



## **LVPECL** Terminators **Technical** Data Sheet **RoHS Compliant Parts Available**

#### Description

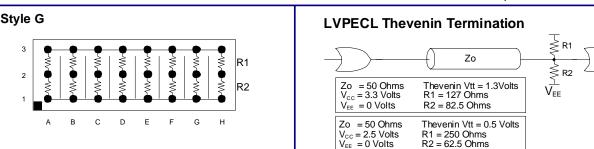
These integrated termination networks provide high performance line termination designs for both 2.5V & 3.3V LVPECL busses.

Specifically designed shielding inside the package combined with a ceramic substrate virtually eliminates cross talk between channels that is common in other termination networks and resistor arravs.

The BGA packaging has been proven to reduce rework and improve reliability.

## Features

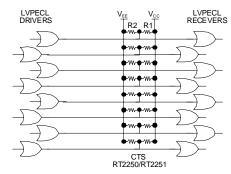
- 8 Bit Thevenin Termination Set •
- Compliant for LVPECL Termination •
- **Excellent High Frequency Performance**
- Slim BGA Package •
- 1% Resistor Tolerance •
- Low Channel to Channel Cross Talk
- **RoHS Compliant Designs Available** 
  - Compatible with both lead and leadfree processes



#### **Electrical Specifications**

Resistor Tolerance:		± 1.0%			
TCR		± 200 ppm/°C			
Operating Temperature Range		-55°C to +125°C			
Maximum Resistor Power:		B6-1.27mm Pitch	B7-1.00mm Pitch		
RT1250	R1	96mW	60mW		
RT1250	R2	96mW	66mW		
RT1251	R1	143mW	91mW		
RT1251	R2	164mW	105mW		
Maximum Package Power:		1.0 Watt at 70°C			
Process Requirements:					
Maximum Re-flow Temperature		Per IPC/JEDEC J-STD-020C			

#### **Typical Application**



#### **Ordering Information**

Standard Part No.	R1 Ω	R2 Ω	Bits	Pitch (mm)	RoHS Part No.		
RT1250B6*	127	82.5	8	1.27	RT2250B6*		
RT1250B7	127	82.5	8	1.00	RT2250B7		
RT1251B6	250	62.5	8	1.27	RT2251B6		
RT1251B7	250	62.5	8	1.00	RT2251B7		

\*Indicates available Top Probe-able part numbers.

Refer to the following link for detailed Top Side Probe-able information: www.ctscorp.com/components/clearone/TopProveClearOne.pdf

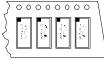
## **Packaging Information**

Suffix	TR7	TR13	
Tape Width	24 mm	24mm	
Carrier Pitch	8 mm	8 mm	
Reel Diameter	7 inch	13 inch	
Parts/Reel	1,000	4,000	

Part Number Coding 7 inch reel, Add TR7 to part number, example RT2250B7TR7

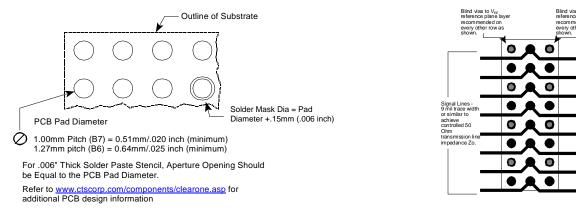
13 inch reel, Add TR13 to part number, example RT2250B7TR13

(Bulk packaging is not available)

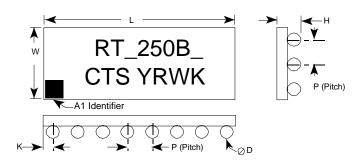




## **Recommended Land Pattern**



## **Mechanical Diagram**

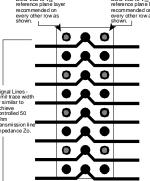


1.00mr	n Pitch	L	W	Н	Р	D	K
RT1250B7 RT2250B7	mm	8.00±0.15	3.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25
RT1251B7 RT2251B7	inch	.315±.006	.118±.006	.047±.006	.039±.010	.025±.002	.020±.010
1.27mr	n Pitch	L	W	Н	Р	D	K
RT1250B6 RT2250B6 RT1251B6 RT2251B6	mm	10.16±0.15	3.81±0.15	1.32±0.15	1.27±0.25	0.76±0.05	0.64±0.25
	inch	.400±.006	.150±.006	.052±.006	.050±.010	.030±.002	.025±.010

Complete ClearONE Product, Processing, and Application Information can be found at the following link:

http://www.ctscorp.com/components/clearone.asp

# **BGA Routing Scheme**



## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS: RT2250B7TR7 RT1250B7TR7