



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

Description

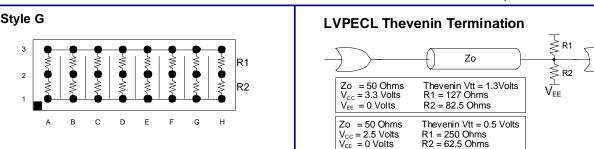
These integrated termination networks provide high performance line termination designs for both 2.5V & 3.3V LVPECL busses.

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

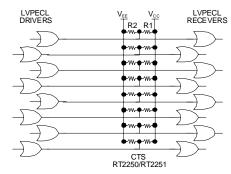
- 8 Bit Thevenin Termination Set •
- Compliant for LVPECL Termination •
- **Excellent High Frequency Performance**
- Slim BGA Package •
- 1% Resistor Tolerance •
- Low Channel to Channel Cross Talk
- **RoHS Compliant Designs Available**
 - Compatible with both lead and leadfree processes



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

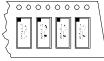
Packaging Information

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

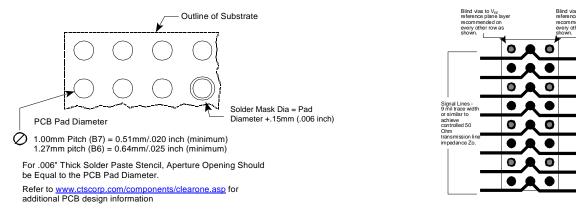
13 inch reel, Add TR13 to part number, example RT2250B7TR13

(Bulk packaging is not available)

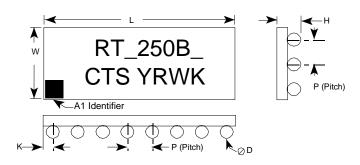




Recommended Land Pattern



Mechanical Diagram

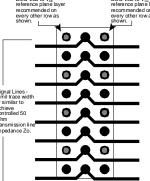


1.00mr	n Pitch	L	W	Н	Р	D	K
RT1250B7 RT2250B7	mm	8.00±0.15	3.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25
RT1251B7 RT2251B7	inch	.315±.006	.118±.006	.047±.006	.039±.010	.025±.002	.020±.010
1.27mr	n Pitch	L	W	Н	Р	D	K
RT1250B6 RT2250B6 RT1251B6 RT2251B6	mm	10.16±0.15	3.81±0.15	1.32±0.15	1.27±0.25	0.76±0.05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