



LVPECL Terminators Technical Data Sheet

RoHS Compliant Parts Available

Description

These integrated termination networks provide high performance line termination for LVPECL busses.

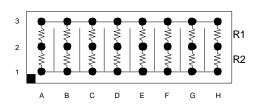
Specifically designed shielding inside the package combined with a ceramic substrate virtually eliminates cross talk between channels that is common in other termination networks and resistor arrays.

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

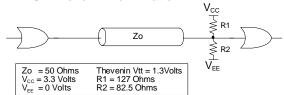
Features

- 8 Bit Thevinin 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

Style G



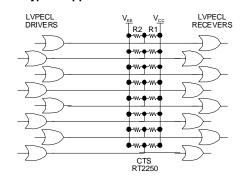
LVPECL Thevenin Termination



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		
	R1	96mw	60mW		
	R2	96mw	66mW		
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	

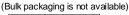
*Indicates available Top Probe-able part numbers.
Refer to the following link for detailed Top Side Probe-able information:
www.ctscorp.com/components/clearone/TopProveClearOne.pdf

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

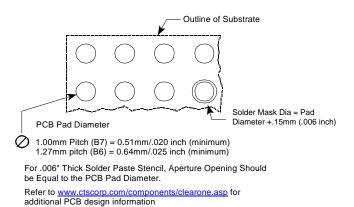
13 inch reel, Add TR13 to part number, example RT2250B7TR13



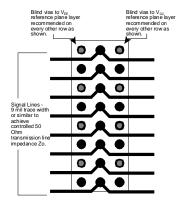




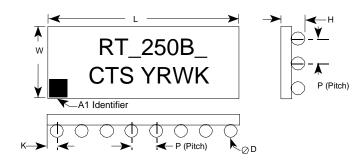
Recommended Land Pattern



BGA Routing Scheme



Mechanical Diagram



1.00mr	n Pitch	L	W	Н	Р	D	K
RT1250B7	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
RT2250B7 inch	.315±.006	.118±.006	.047±.006	.039±.010	.025±.002	.020±.010	
1.27mr	n Pitch	L	W	Н	Р	D	K
RT1250B6	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
RT2250B6	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