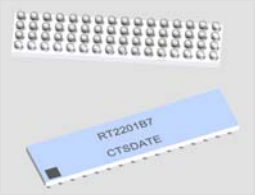
CompactPCI Terminator
Technical Data Sheet
RoHS Compliant Parts Available



Description

This CompactPCI termination network provides high performance resistor termination for high-speed data busses.

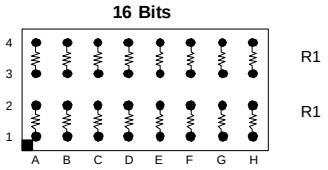
Designed with a ceramic substrate, this device minimizes channel capacitance, a primary cause of reduced system performance. In addition, the BGA package eases routing design, saving the designer many hours of printed circuit layout.

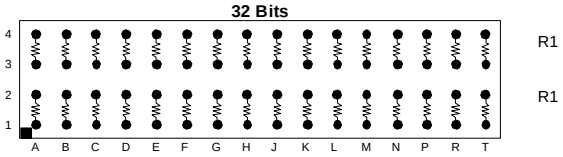
The BGA packaging has been proven to reduce rework and improve reliability.

Features

- 16 or 32 Bit Terminators
- Ultra Low I/O Coupling
- Slim BGA Package
- 10 Ohm Trimmed Resistance to 5%
- RoHS Compliant Designs Available
  - Compatible with both lead and lead-free manufacturing processes

Style C



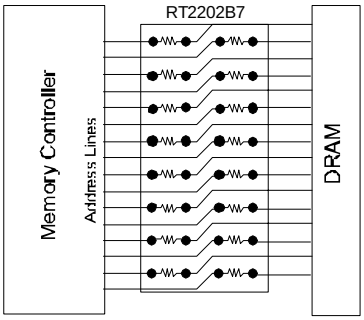


Electrical Specifications

Resistor Tolerance:	± 5.0%
TCR	± 200ppm/°C
Operating Temperature Range	-55°C to +125°C
Maximum Resistor Power:	0.05 Watts at 70°C
Maximum Package Power:	1.0 Watts at 70°C
Process Requirements:	
Maximum Re-flow Temperature	Per IPC/JEDEC J-STD-020C

Typical Application

DRAM Series Termination
for Address Lines



Ordering Information

Standard Part Numbers	Style	R1 Ω	Bits	Array Size	RoHS Part Numbers
RT1200B7	C	10	16	4 x 8	RT2200B7
RT1201B7	C	10	32	4 x 16	RT2201B7

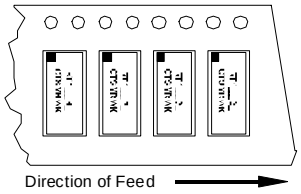
Refer to the following link for detailed Top Side Probe-able information:
www.ctscorp.com/components/clearone/TopProveClearOne.pdf

Part Number Coding

7 inch reel, Add TR7 to part number, example RT2200B7TR7

13 inch reel, Add TR13 to part number, example RT2200B7TR13

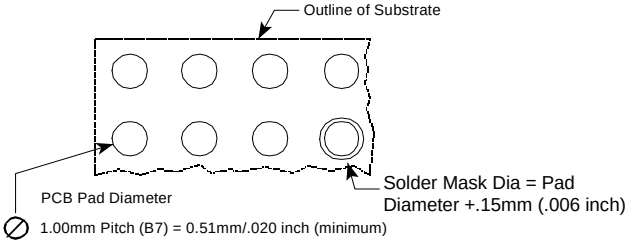
(Bulk packaging is not available)



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

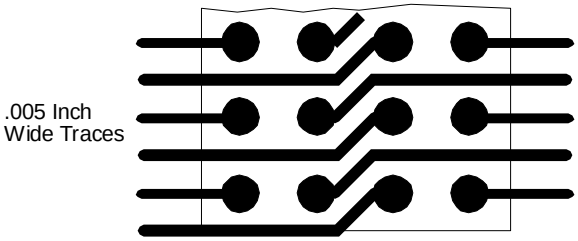
Recommended Land Pattern



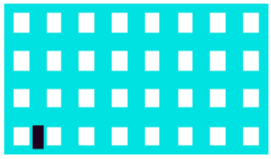
For .006" Thick Solder Paste Stencil, Aperture Opening Should be Equal to the PCB Pad Diameter.

Refer to www.ctscorp.com/components/clearone.asp for additional PCB design information

BGA Routing Scheme



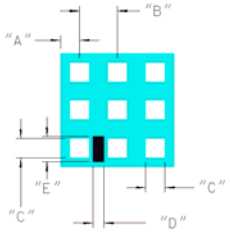
Top Side Probe-able Information



Top Side Probe-able Probe Pad 4x8 Array Shown

Refer to Top Probe-able Application Notes for additional information.

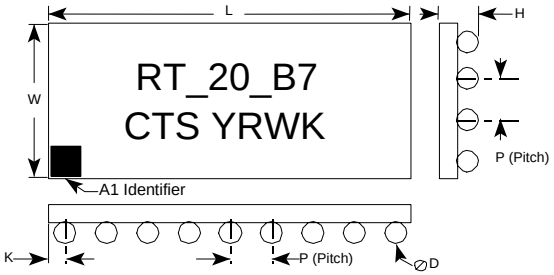
DIM METRIC/ENGLISH	"PITCH SUFFIX" B6	B7
"A"	0.64/.025	0.50/.020
"B"	1.27/.050	1.00/.039
"C"	0.64/.025	0.50/.020
"D"	0.66/.026	0.50/.020
"E"	0.71/.028	0.28/.011
"F"	0.66/.026	0.66/.026



Note: Add a 'P' suffix to order Top Side Probe-able version.
Example: RT1201B7PTR7.

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

Mechanical Diagram



1.00 mm Pitch		L	W	H	P	D	K
RT1200B7 RT2200B7	mm	8.00±0.15	4.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25
	inch	.315±.006	.157±.006	.047±.006	.039±.010	.025±.002	.020±.010
RT1201B7 RT2201B7	mm	16.00±0.15	4.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25
	inch	.630±.006	.157±.006	.047±.006	.039±.010	.025±.002	.020±.010

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

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