

LVDS & LVPECL FPGA Terminator

Technical Data Sheet

RoHS Compliant Parts Available

Description

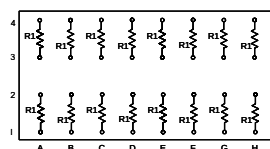
These LVPECL and LVDS termination networks are designed for high performance termination of differential Input/Output signals on some of the most popular Field Programmable Gate Arrays (FPGAs).

Both input (RX) and output (TX) termination is provided.

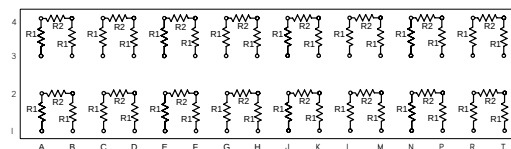
Features

- Designed for termination of Xilinx® and Altera® FPGAs.
- 8 or 16 differential channels of termination provided in a single integrated package
- Excellent high frequency performance
- High density ceramic BGA package
- RoHS Compliant Designs Available
 - Compatible with both lead and lead-free manufacturing processes

Style C



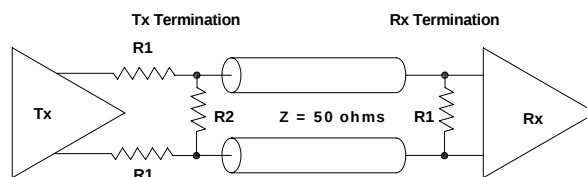
Style I



Electrical Specifications

Resistor Tolerance:	± 1.0%
TCR	±200ppm/°C
Operating Temperature Range	-55°C to +125°C
Maximum Resistor Power:	0.068 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



Ordering Information

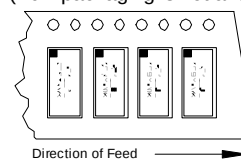
1.27mm Pitch Standard Part No.	1.00mm Pitch Standard Part No.	Style	R1 Ω	R2 Ω	Array Size	1.27mm Pitch RoHS Part No.	1.00mm Pitch RoHS Part No.
RT1710B6	RT1710B7	C	100	-	4 x 8	RT2710B6	RT2710B7
-	RT1720B7	I	187	100	4 x 16	-	RT2720B7
RT1721B6	RT1721B7	I	187	100	4 x 8	RT2721B6	RT2721B7
-	RT1722B7	I	140	165	4 x 16	-	RT2722B7
RT1723B6	RT1723B7	I	140	165	4 x 8	RT2723B6	RT2723B7
-	RT1724B7	I	140	135	4 x 16	-	RT2724B7
RT1725B6	RT1725B7	I	140	135	4 x 8	RT2725B6	RT2725B7
-	RT1726B7	I	70	187	4 x 16	-	RT2726B7
RT1727B6	RT1727B7	I	70	187	4 x 8	RT2727B6	RT2727B7
-	RT1728B7	I	70	240	4 x 16	-	RT2728B7
RT1729B6	RT1729B7	I	70	240	4 x 8	RT2729B6	RT2729B7

Part Number Coding

7 inch reel, Add TR7 to part number, example RT2400B6TR7

13 inch reel, Add TR13 to part number, example RT2400B6TR13

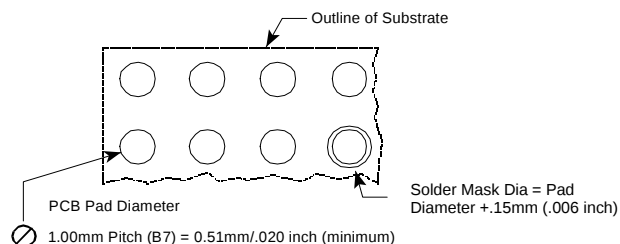
(Bulk packaging is not available)



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

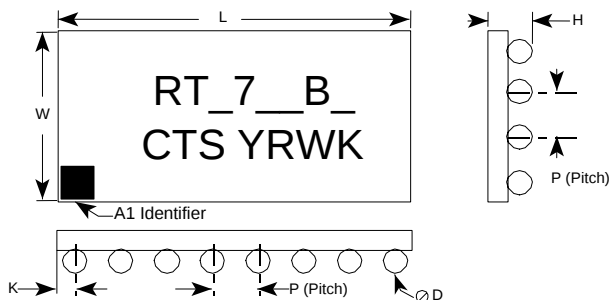
Recommended Land Pattern



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

Mechanical Diagram



1.27mm Pitch			L	W	H	P	D	K
RT1710B6	RT2710B6	mm	10.16±0.15	5.08±0.15	1.32±0.15	1.27±0.25	0.76±0.05	0.64±0.25
RT1721B6	RT2721B6							
RT1723B6	RT2723B6	inch	.400±.006	.200±.006	.052±.006	.050±.010	.030±.002	.025±.010
RT1725B6	RT2725B6							
RT1727B6	RT2727B6							
RT1729B6	RT2729B6							
1.0mm Pitch			L	W	H	P	D	K
RT1710B7	RT2710B7	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
RT1721B7	RT2721B7							
RT1723B7	RT2723B7	inch	.315±.006	.157±.006	.047±.006	.039±.010	.025±.002	.020±.010
RT1725B7	RT2725B7							
RT1727B7	RT1727B7							
RT1729B7	RT1729B7							
RT1720B7	RT2720B7	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
RT1722B7	RT2722B7							
RT1724B7	RT2724B7	inch	.630±.006	.157±.006	.047±.006	.039±.010	.025±.002	.020±.010
RT1726B7	RT2726B7							
RT1728B7	RT2728B7							

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

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

FPGA Application notes:

<http://www.ctscorp.com/components/Datasheets/ClearOneANC1FPGALVPECLA.pdf>

<http://www.ctscorp.com/components/Datasheets/ClearOneANC1FPGALVDSA.pdf>

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[RT2710B7TR7](#)