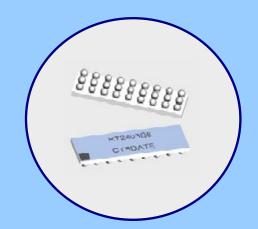


DDR SDRAM TERMINATOR

TECHNICAL DATA SHEET

FEATURES

- 18 Bit SSTL_2 Termination Sets
- Compliant to JEDEC Standard 8-9A
- Excellent High Frequency Performance
- Slim BGA Package
- 1% Resistor Tolerance
- Low Channel Capacitance
- Tape and Reel Packaging
- RoHS Compliant Designs Available
 - Compatible with both lead and lead-free manufacturing processes
- RoHS Compliant in Accordance with EU Directive 2011/65/EU
 - Lead-Free Termination Finish
 - Exemption 7(c)-1, Electrical and electronic components containing lead [Pb] in glass



DESCRIPTION

This SSTL_2 terminator network provides high performance resistor termination for SSTL_2 Class I or Class II systems. 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 proved to reduce rework and improve reliability.

ORDERING INFORMATION

1.27mm PITCH NON-RoHS PART NUMBER	1.00mm PITCH NON-RoHS PART NUMBER	CIRCUIT STYLE	R1 [Ohms]	R2 [Ohms]	ARRAY SIZE	1.27mm PITCH RoHS PART NUMBER	1.00mm PITCH RoHS PART NUMBER
RT1400B6 *	RT1400B7 *	Н	50	25	3 x 9	RT2400B6 *	RT2400B7 *
RT1401B6	RT1401B7	Н	25	22	3 x 9	RT2401B6	RT2401B7
RT1402B6 *	RT1402B7 *	F	50	-	3 x 9	RT2402B6 *	RT2402B7 *
RT1403B6 *	RT1403B7 *	F	25	-	3 x 9	RT2403B6 *	RT2403B7 *
RT1404B6 *	RT1404B7 *	С	25	-	4 x 9	RT2404B6 *	RT2404B7 *
RT1405B6 *	RT1405B7 *	С	22	-	4 x 9	RT2405B6 *	RT2405B7 *
RT1407B6 *	RT1407B7 *	F	35	-	3 x 9	RT2407B6 *	RT2407B7 *
RT1408B6 *	RT1408B7 *	Н	60	25	3 x 9	RT2408B6 *	RT2408B7 *
RT1409B6	RT1409B7	С	120	-	4 x 9	RT2409B6	RT2409B7
RT1430B6	RT1430B7	F	60	-	3 x 9	RT2430B6	RT2430B7
RT1432B6	RT1432B7	F	120	-	3 x 9	RT2432B6	RT2432B7
RT1460B6	RT1460B7	С	50	-	4 x 9	RT2460B6	RT2460B7
RT1463B6 *	RT1463B7	С	33	-	4 x 9	RT2463B6 *	RT2463B7
RT1465B6	RT1465B7	С	47	-	4 x 9	RT2465B6	RT2465B7
RT1467B6 *	RT1467B7 *	F	75	-	3 x 9	RT2467B6 *	RT2467B7 *
RT1468B6 *	RT1468B7 *	F	150	-	3 x 9	RT2468B6 *	RT2468B7 *

^{*} 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.

TAPE & REEL INFORMATION

m E a neel mi onminion					
SUFFIX	TR7	TR13			
Tape Width	24mm	24mm			
Carrier Pitch	8mm	8mm			
Reel Diameter	7inch	13inch			
Parts/Reel	1,000	4,000			

Part Number Coding

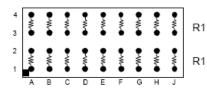
For 7inch reel, add TR7 to part number Ex. RT2400B6TR7 For13inch reel, add TR13 to part number Ex. RT2400B6TR13 (Bulk packaging is not available)

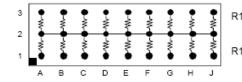


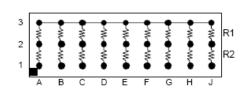
ELECTRICAL & ENVIRONMENTAL CHARACTERISTICS

Resistor Tolerance	±1%		
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		

CIRCUIT TYPES



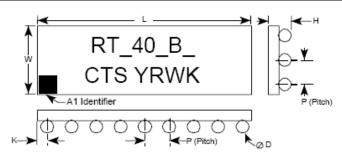




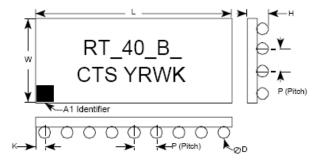
Style C Style F Style H

PACKAGE OUTLINES

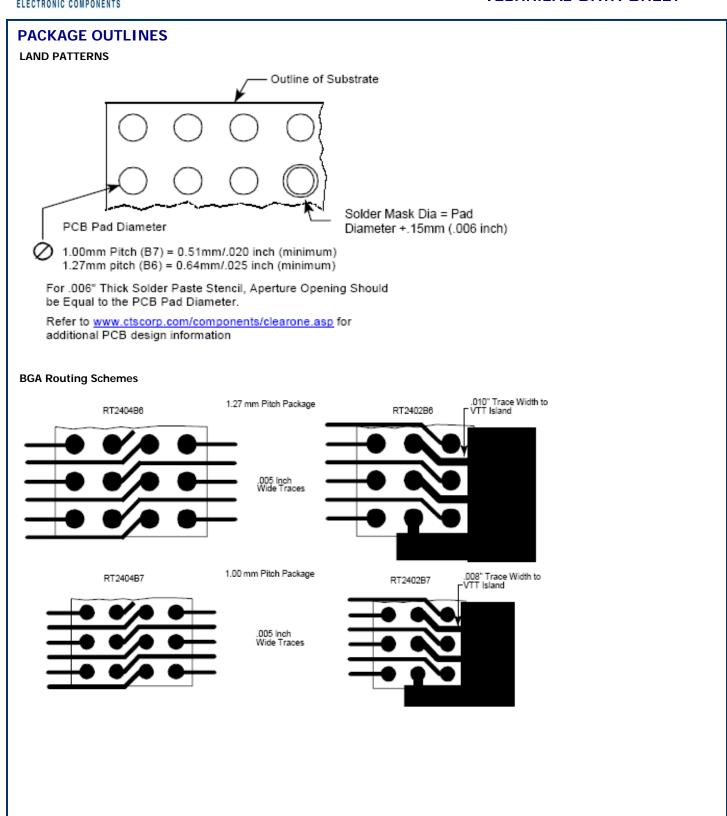
1.27mm PITCH		L	W	Н	Р	D	K
Styles H & F	mm	11.43 ±0.15	3.81 ±0.15	1.32 ±0.15	1.27 ±0.25	0.76 ± 0.05	0.64 ±0.25
	inch	0.450 ± 0.006	0.150 ±0.006	0.052 ±0.006	0.050 ±0.010	0.030 ± 0.002	0.025 ±0.010
1.00mm PITCH		L	W	H	Р	D	K
Styles H & F	mm	9.00 ±0.15	3.00 ±0.15	1.19 ±0.15	1.00 ±0.25	0.64 ± 0.05	0.50 ± 0.25
	inch	0.354 ±0.006	0.118 ±0.006	0.047 ±0.006	0.039 ±0.010	0.025 ±0.002	0.020 ±0.010



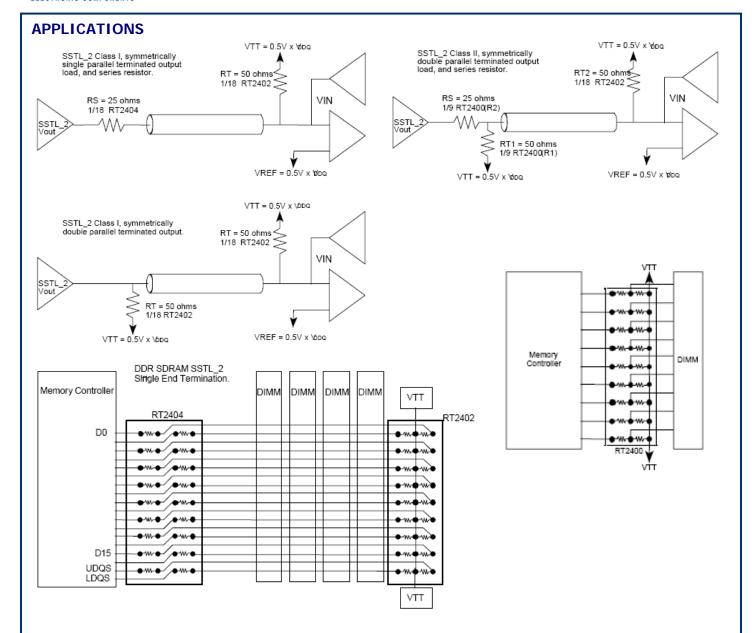
1.27mm PITCH		L	W	Н	Р	D	K
Style C	mm	11.43 ±0.15	5.08 ±0.15	1.32 ±0.15	1.27 ±0.25	0.76 ±0.05	0.64 ±0.25
	inch	0.450 ±0.006	0.200 ±0.006	0.052 ±0.006	0.050 ±0.010	0.030 ± 0.002	0.025 ±0.010
1.00mm PITCH		L	W	Н	Р	D	K
Style C	mm	9.00 ±0.15	4.00 ±0.15	1.19 ±0.15	1.00 ±0.25	0.64 ± 0.05	0.50 ± 0.25
	inch	0.354 ±0.006	0.157 ±0.006	0.047 ±0.006	0.039 ±0.010	0.025 ±0.002	0.020 ±0.010







DDR SDRAM TERMINATOR TECHNICAL DATA SHEET



Complete ClearONE Product, Processing, and Application Information can be found at the following link: http://www.ctscorp.com/components/clearone.asp

This product is covered by one or more of the following U.S. and foreign patents: US 5,977,863; TW 133,148; US 6,005,777; US 6,194,979; TW 89104035; US 6,097,277; US 6,246,312; US 6,749,775; US 6,577,225; US 6,963,265; US 6,897,761; US 6,882,266; US 6,946,733; US 6,856,516. Other U.S. and foreign patents pending.

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M8340108K6202GGD03 M8340109K2002FCD03 M8340109M4701GCD03 EXB-24N121JX EXB-24N470JX EXB-A10E102J EXB-A10E104J 744C083101JTR MDP1603100KGE04 PRA100I2-1KBWNW GUS-SS4-BLF-01-1002-G ACAS06S0830339P100

ACAS06S0830343P100 ACAS06S0830344P100 RM2012A-102/104-PBVW10 RM2012A-102503-PBVW10 RM2012A-502104-PBVW10

RM3216B-102302-PBVW10 L091S102LF ACAS06S0830341P100 ACAS06S0830342P100 ACAS06S0830345P100 EXB-14V300JX EXB-U18330JX EXB-V8V220GV PRA100I2-10KBWN PRA100I4-10KBWN M8340102M4701JAD04 M8340105K1002GGD03

M8340105M1001JCD03 M8340107K3402FCD03 M8340108K1000FGD03 M8340108K1000GGD03 M8340108K4992FGD03

M8340108K2001FCD03 M8340108K2002FCD03 M8340108K3901GGD03 M8340108K4122FGD03 M8340108K4992FGD03

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