

Features

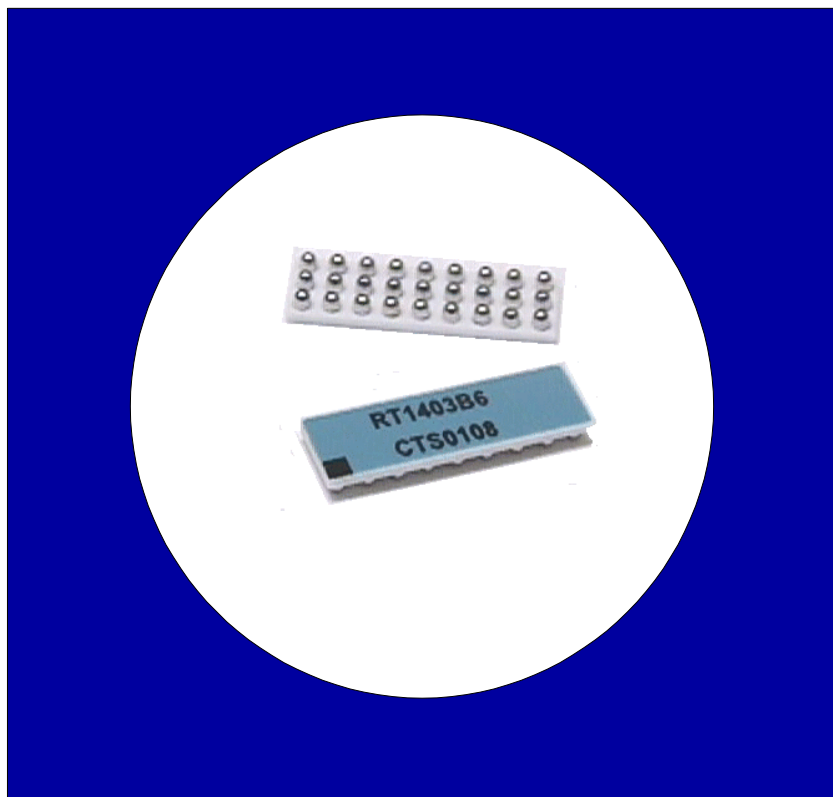
- 18 Bit SSTL_2 Termination Sets
- Compliant to JEDEC Std. 8-9A
- Excellent High Frequency Performance
- Slim BGA Package
- 1% Resistor Tolerance
- Low Channel Capacitance

Description

This SSTL_2 termination network provides high performance resistor termination for SSTL_2 Class I or Class II systems.

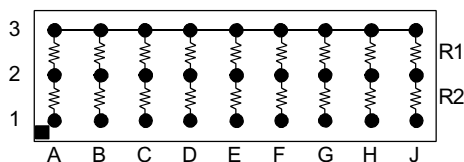
Designed with a ceramic substrate, this device virtually eliminates channel capacitance, a primary cause of reduced system performance. In addition, the BGA package eases routing design, saving the designer many hours of printed circuit layout.

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

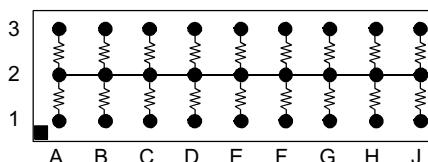


Custom resistor values and tolerances available upon request.

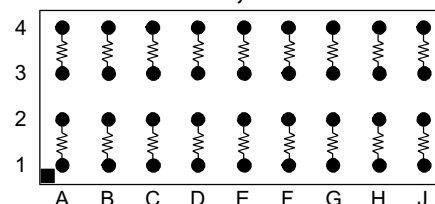
RT1400, RT1401



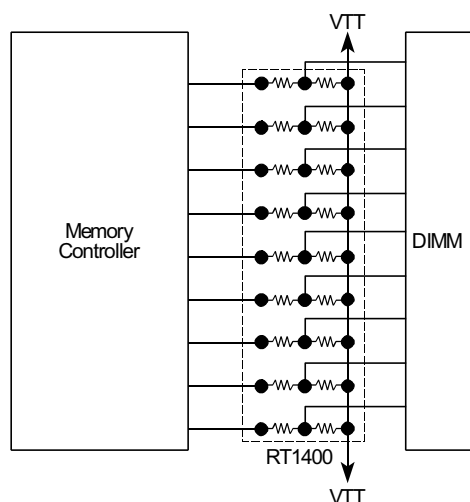
RT1402, RT1403



RT1404, RT1405



Typical Application



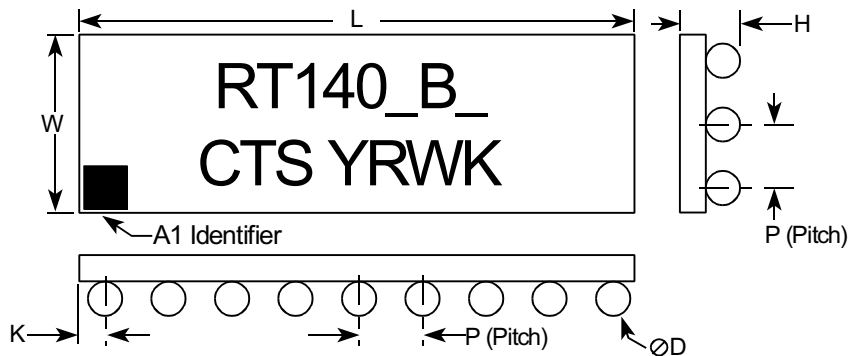
Ordering Information

Part Number	R1 ohms	R2 ohms	Array Size	Pitch(mm)
RT1400B6	50	25	3 x 9	1.27
RT1400B7	50	25	3 x 9	1.00
RT1401B6	25	22	3 x 9	1.27
RT1401B7	25	22	3 x 9	1.00
RT1402B6	50	-	3 x 9	1.27
RT1402B7	50	-	3 x 9	1.00
RT1403B6	25	-	3 x 9	1.27
RT1403B7	25	-	3 x 9	1.00
RT1404B6	25	-	4 x 9	1.27
RT1404B7	25	-	4 x 9	1.00
RT1405B6	22	-	4 x 9	1.27
RT1405B7	22	-	4 x 9	1.00

(Tape and reel packaging information is shown on page 3)

Mechanical Diagrams

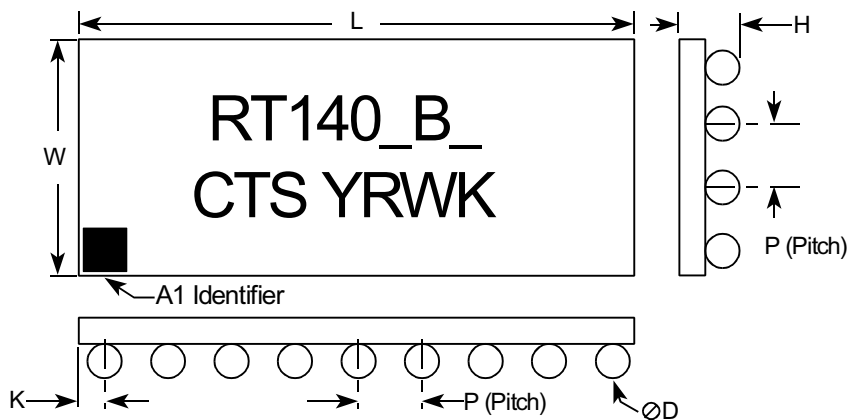
3 x 9 Array RT1400, RT1401, RT1402, RT1403



1.27 mm Pitch			L	W	H	P	D	K	Co-planarity
RT1400B6	mm inch		11.43±0.15	3.81±0.15	1.32±0.15	1.27±0.25	0.76±0.05	0.64±0.25	0.15
RT1401B6			.450±.006	.150±.006	.052±.006	.050±.010	.030±.002	.025±.010	.006
RT1402B6									
RT1403B6									

1.00 mm Pitch			L	W	H	P	D	K	Co-planarity
RT1400B7	mm inch		9.00±0.15	3.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25	0.15
RT1401B7			.354±.006	.118±.006	.047±.006	.039±.010	.025±.002	.020±.010	.006
RT1402B7									
RT1403B7									

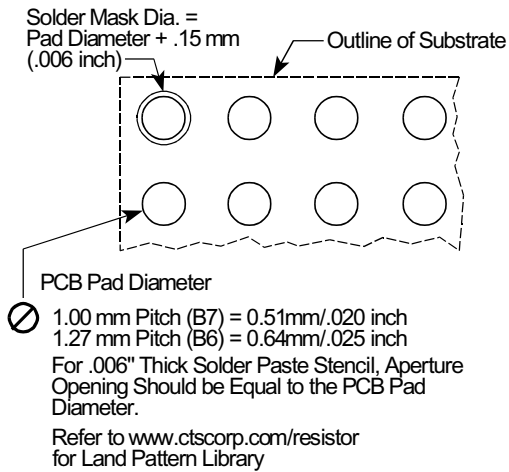
4 x 9 Array RT1404, RT1405



1.27 mm Pitch			L	W	H	P	D	K	Co-planarity
RT1404B6	mm inch		11.43±0.15	5.08±0.15	1.32±0.15	1.27±0.25	0.76±0.05	0.64±0.25	0.15
RT1405B6			.450±.006	.200±.006	.052±.006	.050±.010	.030±.002	.025±.010	.006

1.00 mm Pitch			L	W	H	P	D	K	Co-planarity
RT1404B7	mm inch		9.00±0.15	4.00±0.15	1.19±0.15	1.00±0.25	0.64±0.05	0.50±0.25	0.15
RT1405B7			.354±.006	.157±.006	.047±.006	.039±.010	.025±.002	.020±.010	.006

Recommended Land Pattern

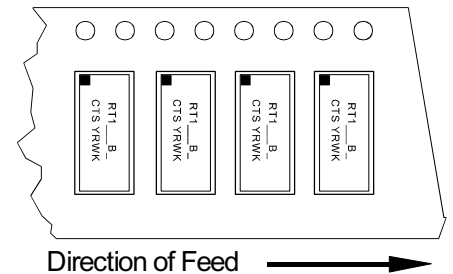


Tape and Reel Packaging

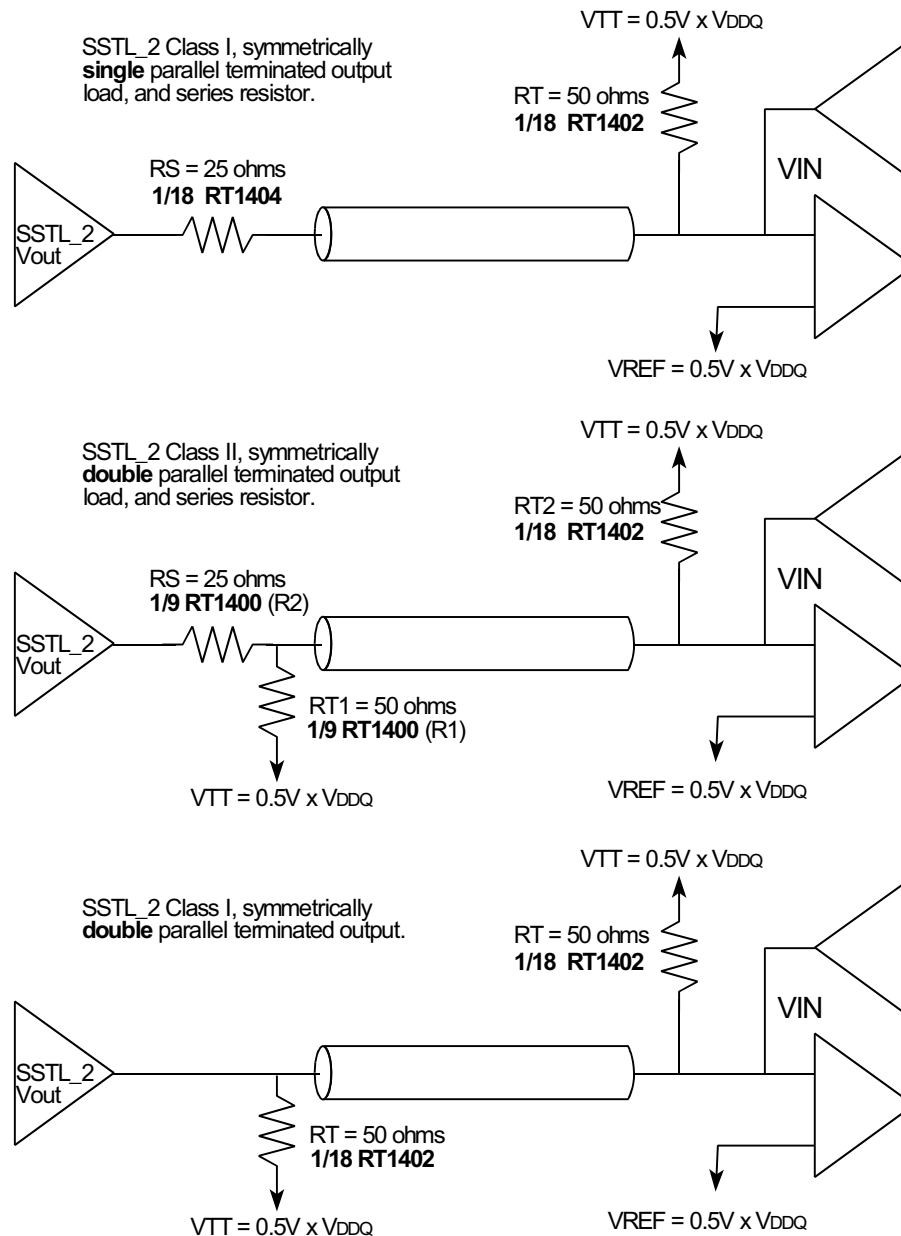
Part Number Coding

7 inch reel, Add TR7 to part number, example RT1400B6TR7
13 inch reel, Add TR13 to part number, example RT1400B6TR13
(bulk packaging is not available)

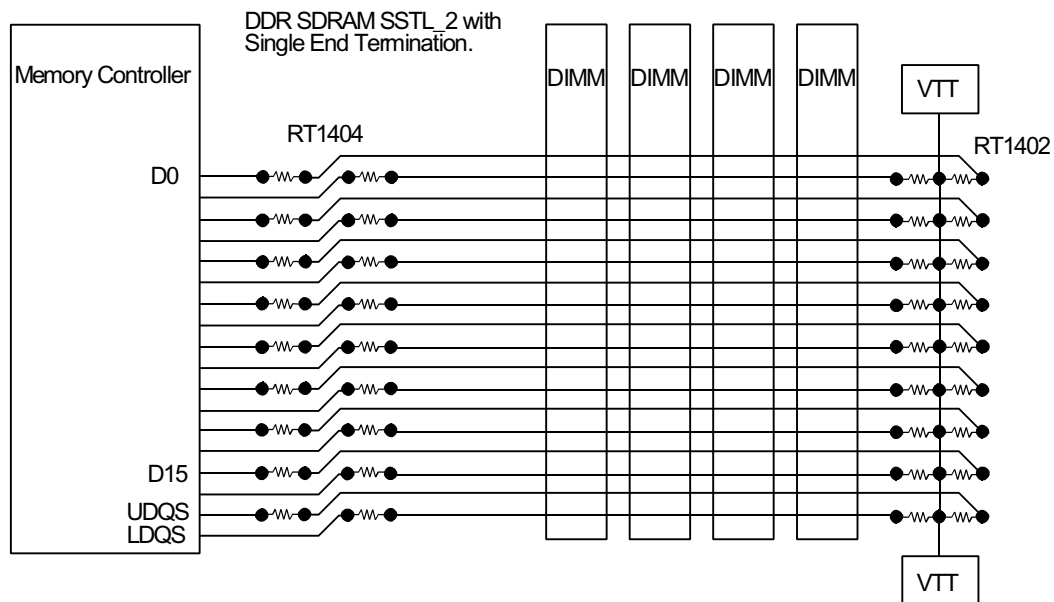
TR13 Suffix	
Tape Width	24 mm
Carrier Pitch	8 mm
Reel Diameter	13 inch
Parts/Reel	4,000
TR7 Suffix	
Tape Width	24 mm
Tape Pitch	8 mm
Reel Diameter	7 inch
Parts/Reel	1,000



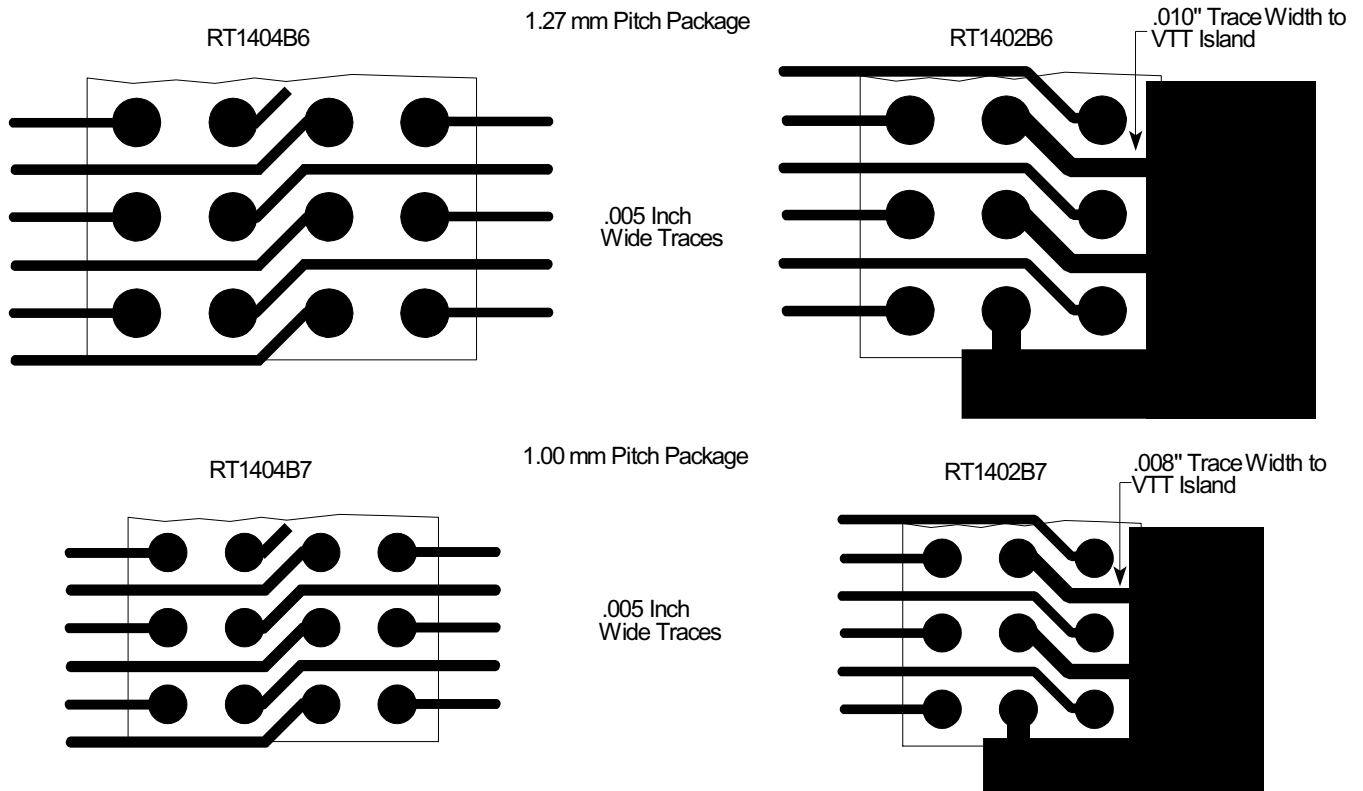
Applications



Applications



BGA Routing Scheme



Electrical Specifications

Resistor Tolerance:
±1.0%

Maximum Resistor Power:
0.05 Watts at 70°C
(Not to Exceed Total Network Power)

Package Power Rating:
1.0 Watt at 70°C

Temperature Coefficient of Resistance:
±200 ppm/°C

Operating Temperature Range:
-55°C to +125°C