

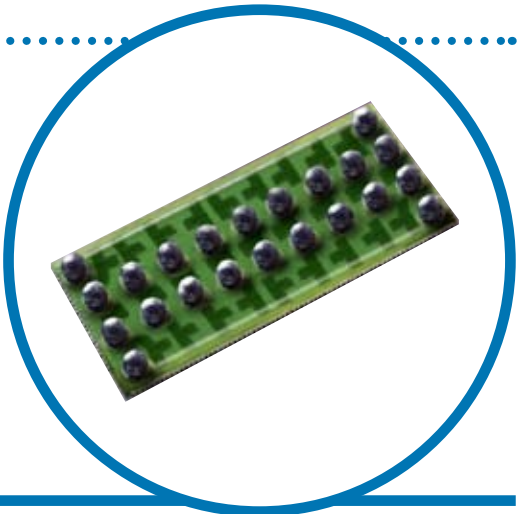
SCSI Termination Resistor network

Low Voltage Differential (LVD)



BB1020DT Series

- **SPI-2 (Ultra2) and SPI-3 (Ultra3) compliant**
- **Each network contains LVD termination for up to 9 lines**
- **Superior high frequency performance**
- **Minimal stray capacitance and inductance**
- **Surface mountable with automatic pick and place equipment**

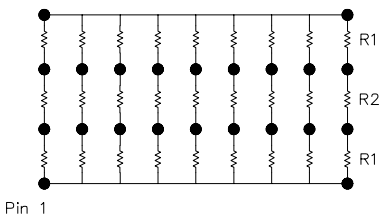


Description

Model BB1020DT is a SCSI LVD termination network designed to terminate high performance SPI-2 (Ultra2) and SPI-3 (Ultra3) bussed applications. Wide SCSI bus applications can be terminated with three BB1020DT networks and a linear regulator IC.

For use in high-speed SCSI bus applications, the BB1020DT utilizes thick film resistors on a ceramic substrate with ball grid array (BGA) terminals. Resistors and solder balls reside on the same side of the ceramic substrate, resulting in the absolute minimum stray capacitance and inductance.

Schematics



R1 = 475Ω (18 places)
R2 = 121Ω (9 places)

Electrical ¹

Resistance Nominal (R1 & R2)	475Ω, 121Ω
Absolute Tolerance	±1%
Temperature Coefficient of Resistance	±100 ppm/°C
Interlead Capacitance, Maximum	0.1 pF
Operating Temperature Range	-55°C to +125°C
Power Rating (per network @ 70°C)	1 Watt

¹ Specification subject to change without notice.

General Note

TT electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT electronics' own data and is considered accurate at time of going to print.



www.bitechnologies.com www.irctt.com www.welwyn-tt.com

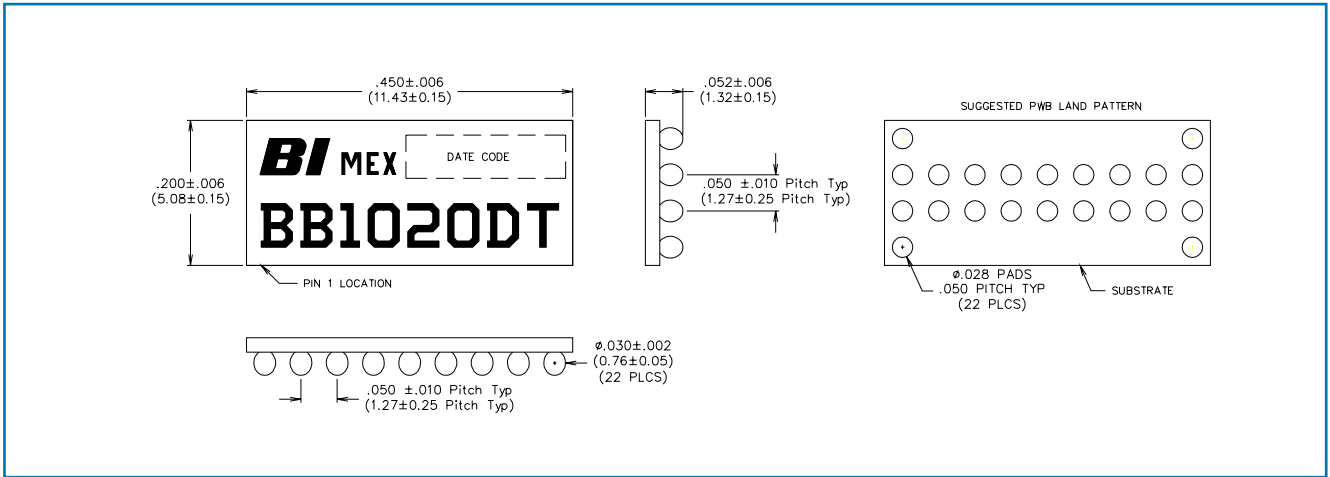
Mechanical

Solder Ball Finish (for non-RoHS)	SnPbAg 10/88/2
Solder Ball Co-planarity	0.15 mm
Substrate Material	Al ₂ O ₃
Resistor Material	Cermet

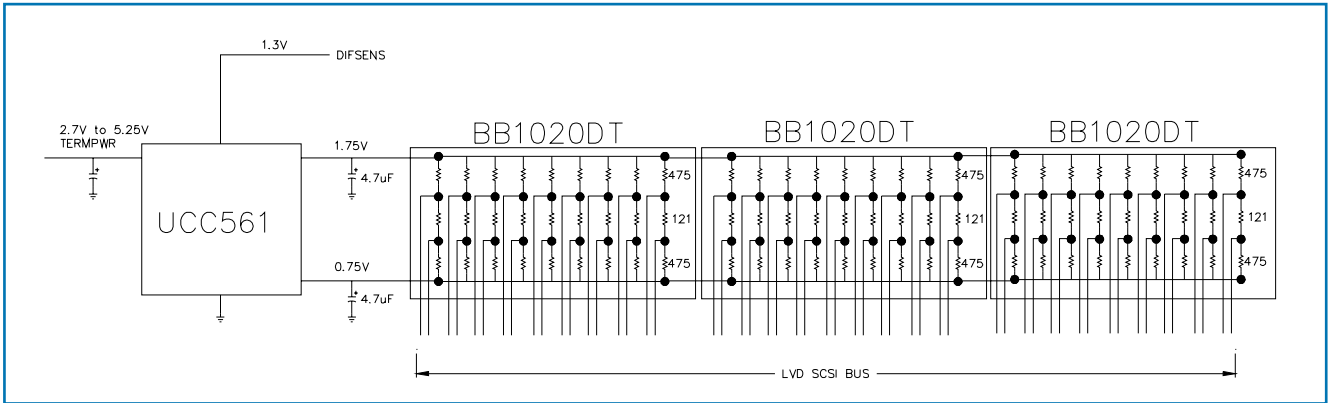
Ordering Information²

	Reel Size (inches)	Quantity/Reel	RoHS compliant ³
BB1020DT7	7	1000	No
BB1020DTLF7	7	1000	Yes
BB1020DT13	13	4000	No
BB1020DTLF13	13	4000	Yes

Outline Drawing



Application Notes



2 Contact our customer service for custom designs and features.
3 Consult factory for availability.

General Note

TT electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT electronics' own data and is considered accurate at time of going to print.