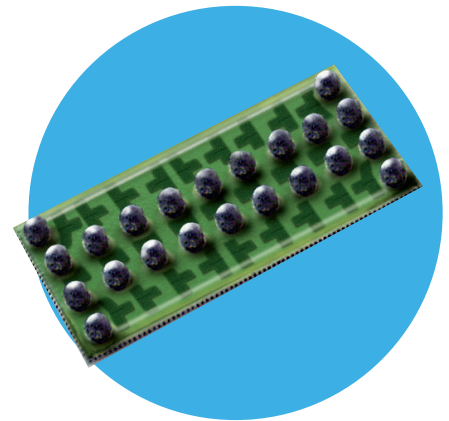


SCSI Termination Resistor network Low Voltage Differential (LVD)

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



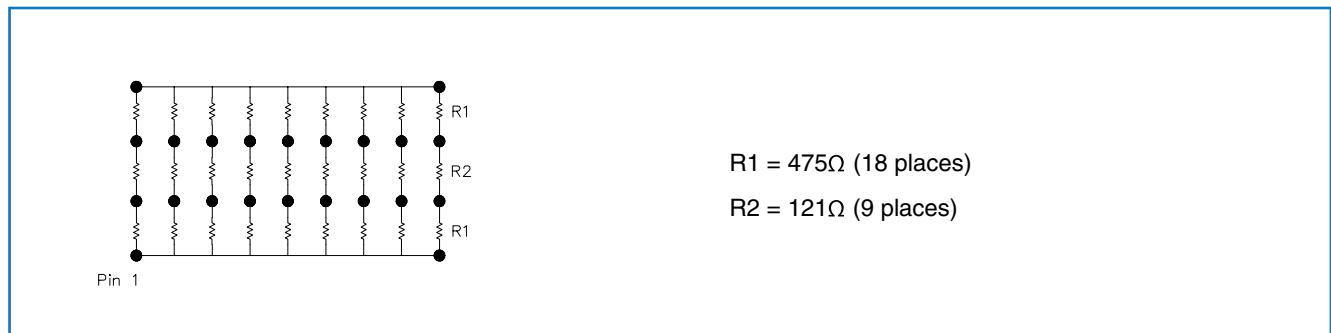
 All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

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



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.

BB1020DT Series

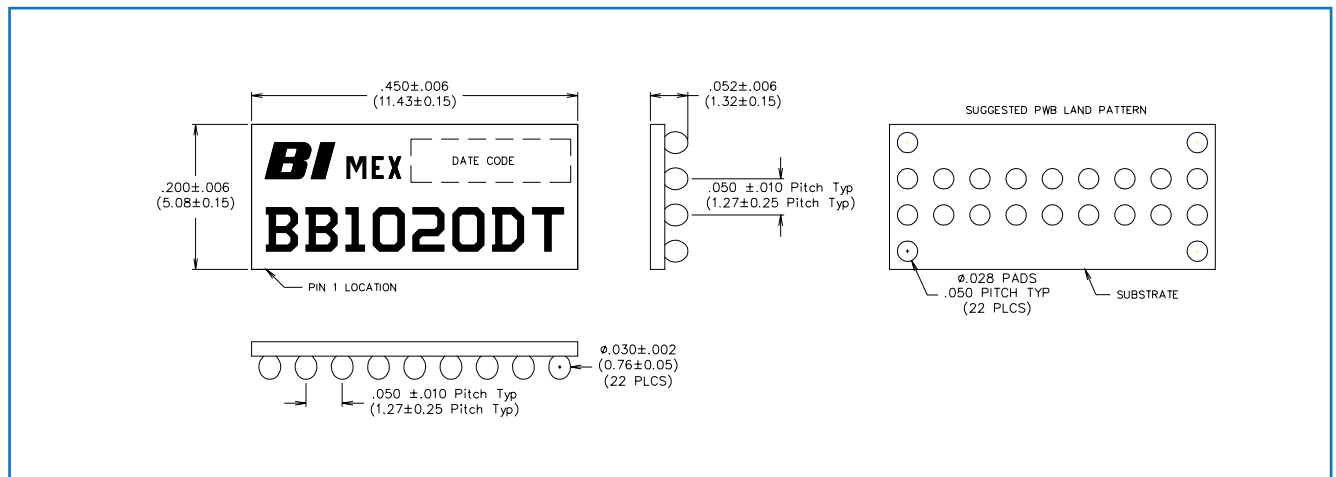
Mechanical

| | |
|-----------------------------------|--------------------------------|
| 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 |

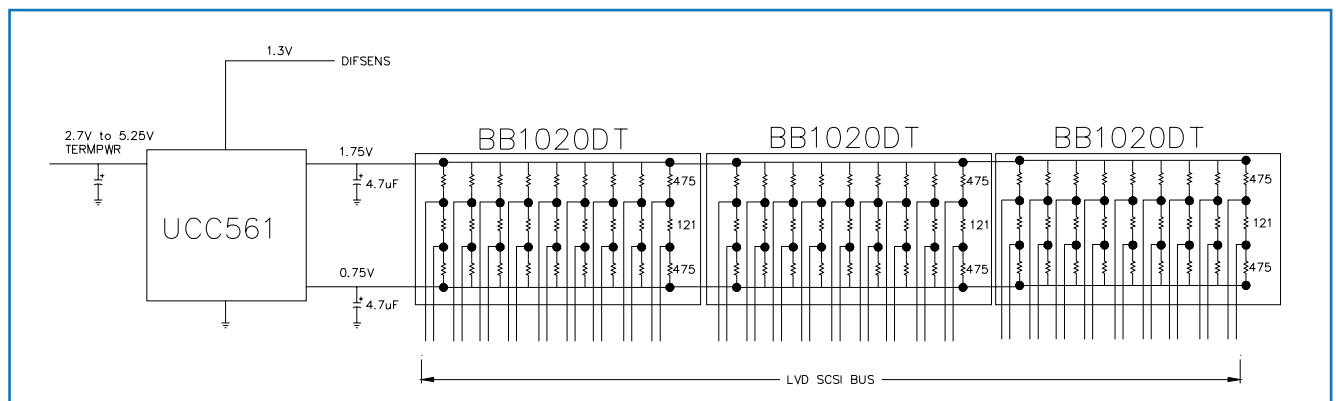
Ordering Information²

| | 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.

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