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# Data Bus Relay Devices

BETA TRANSFORMER TECHNOLOGY CORPORATION
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## Data Sheet

The DBR1000 and DBR2000 Series of bus switching relays are designed for use in the test and simulation of MIL-STD-1553 data buses. They are particularly useful in reconfiguring bus systems.

The DBR1000 and DBR1001 bus switches are double-pole single-throw (2P1T) relay devices which act as on-off bus switches to disconnect individual RT's or entire bus segments from a bus network without having to physically disconnect the cables.

***North Hills Application Note 257 -** *"MIL-STD-1553 Umbilical Separation"* provides further information on the subject.

The DBR2000 through DBR2006 bus switches are double-pole double-throw (2P2T) relay devices which can switch instrumentation or RT's from one bus or stub to another or reconfigure a bus. The DBR2004 has internal terminators while the DBR2005 and DBR2006 have exceptional isolation, useful in red/black or secure bus situations.




North Hills Model # DBR2000 Data Bus Relay Device

### Features:

- Up to 90 dB separation
- 2P1T or 2P2T

### Benefits:

- Ideal for test and simulation
- No cable changing
- Easy to use

### Specifications:

| Material | | | | |
|---|---|---|---|---|
| Model # | Connectors | Case Material | Base Plate Material | Finish |
| DBR1000 & DBR1001 | J1 & J2 Trompeter BJ71 or equivalent. J3 ITT Cannon subminiature DB-9-Male or equivalent. | 0.020 Cold rolled steel hot tinned. | 0.042 Cold rolled steel hot tinned. | Light blue enamel, per TT-E-529. Color per FED-STD-595 #25526. Mounting surface not painted. |
| DBR2000, DBR2001 & DBR2004 | J1 thru J3 Trompeter BJ71 or equivalent. J4 ITT Cannon subminiature DB-9-Male or equivalent. | 0.020 Cold rolled steel hot tinned. | 0.042 Cold rolled steel hot tinned. | Light blue enamel, per TT-E-529. Color per FED-STD-595 #25526. Mounting surface not painted. |
| DBR2005 & DBR2006 | Data-Trompeter BJ71 or equivalent (3Plcs). Control (DC) - DE9M | Case and cover - 0.025 THK. Cold rolled steel | 0.042 THK. Cold rolled steel | Hot tin dipped. Paint with light blue semigloss enamel per TT-E-529. Color per FED-STD-595 #25526. Mounting surface not painted. |

North Hills™

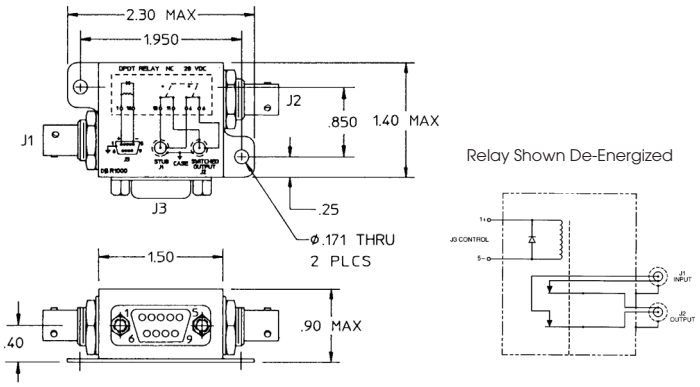
For more information: www.BTTC-Beta.com/DBRelay

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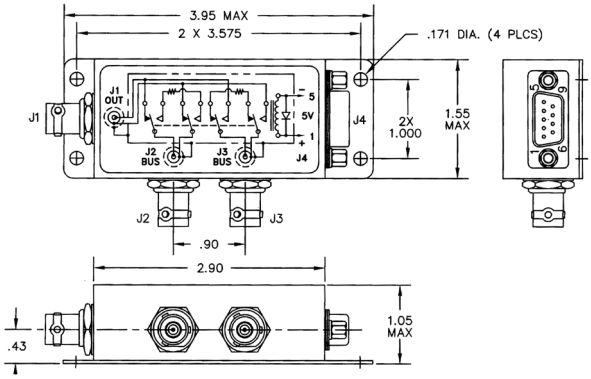
Printed on recycled paper.

# Technical Drawings

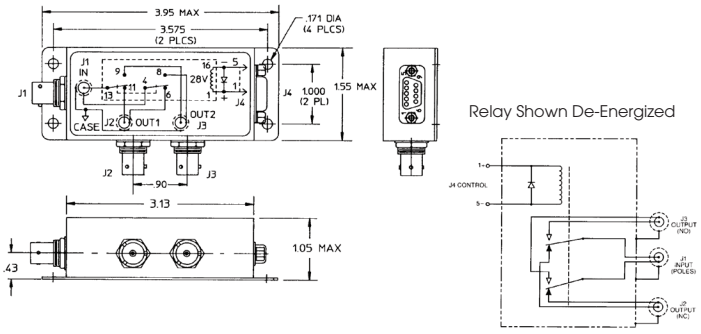
## DBR1000 and DBR1001



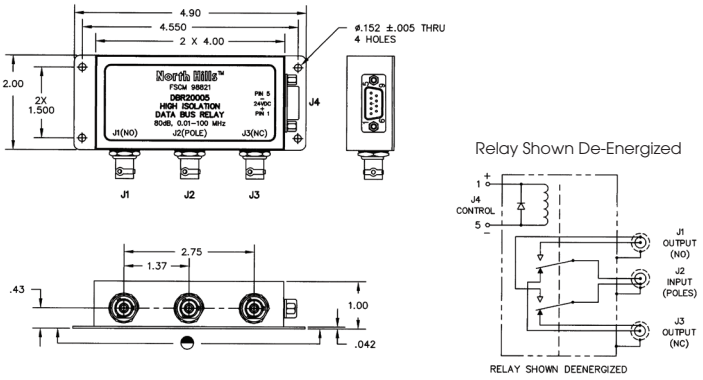

## DBR2004




## DBR2000 and DBR2001




## DBR2005 and DBR2006




# Ordering Information

| Parameter | MODEL # | | | | | |
|---|---|---|---|---|---|---|
| | DBR-1000 | DBR-1001 | DBR-2000 | DBR-2001 | DBR-2004 | DBR-2005 |
| Contact Arrangement | 2P1T | 2P1T | 2P2T | 2P2T | 2P2T | 2P2T |
| Insertion Loss | .25 dB max | .25 dB max | .25 dB max | .25 dB max | .25 dB max | .25 dB max |
| Isolation Between Ports 1 MHz | 60 dB min | 60 dB min | 60 dB min | 60 dB min | 90 dB min | 90 dB min |
| 10 MHz | 50 dB min | 50 dB min | 50 dB min | 50 dB min | 90 dB min | 90 dB min |
| 100 MHz | - | - | - | - | 80 dB min | 80 dB min |
| Connectors Bus Control | BJ71 or Equivalent High/Blue to Center DE9M-PIN1 = (+), PIN5 = (-). | | | | | |
| Coil Voltage Nominal | 28VDC | 5VDC | 28VDC | 5VDC | 5VDC[1] | 28VDC[2] |
| Min-Max | 16-48VDC | 3.5-10 | 16-48VDC | 3.5-10 | 3.5-10 | 16-48VDC |
| Resistance, ohms | 2880 | 125 | 2880 | 125 | 125 | 1440 |
| Insulation Withstanding | 500Vac | 500Vac | 500Vac | 500Vac | 500Vac | 500Vac |
| Case and Base Material | CRS Hot Tin Dipped | | | | | |

1. For 28VDC operation, use DBR2007. It has the same coil specifications as DBR2000.
2. For 5VDC operation use DBR2006

*Specifications subject to change without notice.*

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