North Hills manufactures a full line of single-stub couplers for MIL-STD-1553. All four versions of USAF #7822056 are available from stock as are most other devices in our standard box-type DB series. Multiple-stub and in-line couplers are described in separate data sheets.

North Hills couplers provide 55 dB common mode rejection and are fabricated using a hot tinned cold rolled steel case which is solder sealed for superior environmental, EMI and corrosion protection. A full environmental qualification report and source control drawing template are available upon request for select products.

Features:
- 55 dB common mode rejection (CMR)
- High EMI resistance
- All industry standard connectors

Benefits:
- Flight qualified
- All four USAF #7822056 versions
- In stock
- Low cost

Specifications:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Droop</td>
<td>20% Maximum (250 kHz)</td>
</tr>
<tr>
<td>Overshoot and Ringing</td>
<td>± 1.0V Peak (250 kHz square wave with 100 ns max rise and fall)</td>
</tr>
<tr>
<td>Common Mode Rejection</td>
<td>-55.0 dB (Min) @ 1 MHz</td>
</tr>
<tr>
<td>Fault Protection</td>
<td>59Ω ± 1%, 1 Watt per MIL-R-39007</td>
</tr>
<tr>
<td>Turns Ratio</td>
<td>1:1.41 or 1.0:1.0</td>
</tr>
</tbody>
</table>
| Stub Voltage                   | 1.0V
| Operating Temperature          | -55°C to +125°C                                                             |
| Storage Temperature            | -55°C to +150°C                                                             |
| Higher temperature units available. | Specifications subject to change without notice.                     |

For more information:  www.BTTC-Beta.com/SingleStub
### Technical Drawings

**DB0-SERIES**

```
Model # | Connector                  | Mating Connector              | Terminator (recomm.) | Weight (g) | Turns Ratio | Case Material | Isolation Resistors (Ω) | Comment
------|----------------------------|--------------------------------|-----------------------|------------|-------------|------------------------|--------------------------|--------
DB01M01E | Raychem D-621-0012 Female Socket | Raychem D-621-0011 Male Pin D-602-0126 | 65                    | 1.4:1      | Tinned CRS   | 59                     | -55 dB CMR               |        
DB02M01E | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 75         | 1.4:1       | Tinned CRS   | 59                     | -55 dB CMR               |        
DB03M01E | Trompeter BJ371             | Trompeter PL375                | RT600078              | 75         | 1.4:1       | Tinned CRS   | 59                     | -55 dB CMR               |        
DB04M01E | Trompeter BJ3150            | Trompeter PL3155               | RT800078              | 75         | 1.4:1       | Tinned CRS   | 59                     | -55 dB CMR               |        
DB05M01E | Trompeter BJ150             | Trompeter PL155                | RT700078              | 75         | 1.4:1       | Tinned CRS   | 59                     | -55 dB CMR               |        
NH12824 | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 65         | 1.0:1       | AL          | 59                     | Low Cost USAF#7822056-001|        
NH12825* | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 65         | 1.0:1       | AL          | 53.5                   | Low Cost USAF#7822056-003*|        
NH12826 | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 65         | 1.4:1       | AL          | 56.2                   | Low Cost USAF#7822056-005|        
NH12827* | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 65         | 1.4:1       | AL          | 56.2                   | Low Cost USAF#7822056-007*|        
NH12915 | Trompeter BJ71              | Trompeter PL75                 | RT500078              | 65         | 1.4:1       | AL          | 59                     | Low Cost -55 dB CMR        |        
DB12012* | Trompeter BJ71              | Trompeter PL75                 | 75                     | 1.4:1      | Tinned CRS   | 59                     | -55 dB CMR               |        
```

*Contains internal 76.8Ω termination resistor.

---

**DB12012**

```
Model # | Connector                  | Mating Connector              | Terminator (recomm.) | Weight (g) | Turns Ratio | Case Material | Isolation Resistors (Ω) | Comment
------|----------------------------|--------------------------------|-----------------------|------------|-------------|------------------------|--------------------------|--------
```

---

**NH12824-27/USA 7822056-XXX**

```
Model # | Connector                  | Mating Connector              | Terminator (recomm.) | Weight (g) | Turns Ratio | Case Material | Isolation Resistors (Ω) | Comment
------|----------------------------|--------------------------------|-----------------------|------------|-------------|------------------------|--------------------------|--------
```

---

### Ordering Information

**Model #**

- **DB01M01E**: Raychem D-621-0012 Female Socket D-602-0127 Raychem D-621-0011 Male Pin D-602-0126
- **DB02M01E**: Trompeter BJ71 Trompeter PL75 RT500078
- **DB03M01E**: Trompeter BJ371 Trompeter PL375 RT600078
- **DB04M01E**: Trompeter BJ3150 Trompeter PL3155 RT800078
- **DB05M01E**: Trompeter BJ150 Trompeter PL155 RT700078
- **NH12824**: Trompeter BJ71 Trompeter PL75 RT500078
- **NH12825**: Trompeter BJ71 Trompeter PL75 RT500078
- **NH12826**: Trompeter BJ71 Trompeter PL75 RT500078
- **NH12827**: Trompeter BJ71 Trompeter PL75 RT500078
- **NH12915**: Trompeter BJ71 Trompeter PL75 RT500078
- **DB12012**: Trompeter BJ71 Trompeter PL75

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For ordering assistance and technical support,

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Germany +49-(0)89-1500-12-11
Japan +81-(0)3-814-7688
Asia +65-6489-4801
India +91 80 46797 0368

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**Data Device Corporation**

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