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North Hills™ Signal Processing Corp.

ISO 9001:2008 Certified

BOX-TYPE, SINGLE-STUB DATA BUS COUPLERS

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.



North Hills Model # DB02M01E Box-Type, Single-Stub Data Bus Coupler.

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

Electrical Specifications:

All parameters are in accordance with MIL-STD-1553B and Notice 2.

Droop	20% Maximum @ 250 kHz
Overshoot and Ringing	± 1.0V Peak (250 kHz square wave with 100 ns maximum rise and fall time)
Common Mode Rejection	-55.0 dB (Min) @ 1 MHz
Fault Protection	59Ω ± 1%, 1 Watt per MIL-R-39007
Turns Ratio	1:1.41 or 1.0:1.0
Stub Voltage	$1.0V_{PP}$ to $14.0V_{PP}$ transformer coupled
Operating Temperature	-55ºC to +125ºC
Storage Temperature	-55ºC to +150ºC

Higher temperature units available.

Specifications subject to change without notice.

North Hills™ Signal Processing Corp.
6851 Jericho Turnpike
Syosset, NY 11791
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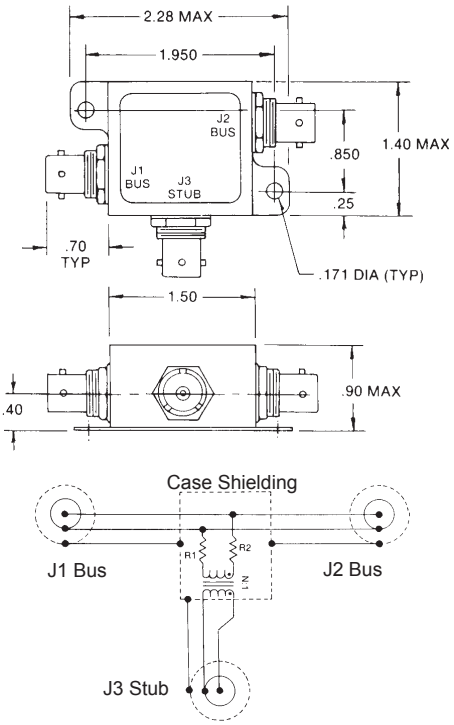


Fig. 1 Dimensions for DB0-Series Couplers

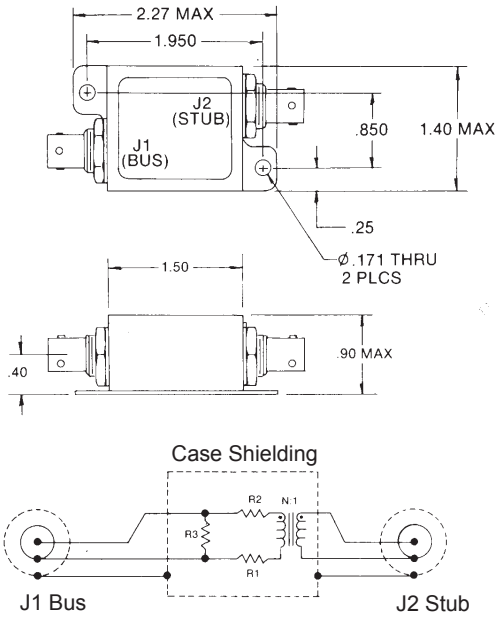


Fig 2. Dimensions for DB12012 Coupler

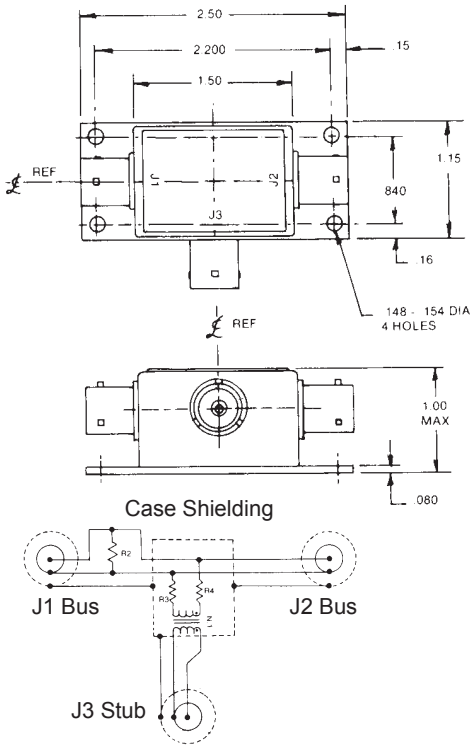


Fig. 3. Dimensions for NH12824-27/USAF 7822056-XXX Couplers

Ordering Information:

Model #	Connector	Mating Connector	Recommended Terminator	Weight (g)	Turns Ratio	Case Material	Isolation Resistors (Ω)	Comment
DB01M01E	Raychem D-621-0012 Female Socket D-602-0127	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		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		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.

Click here for a full list of accessories

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