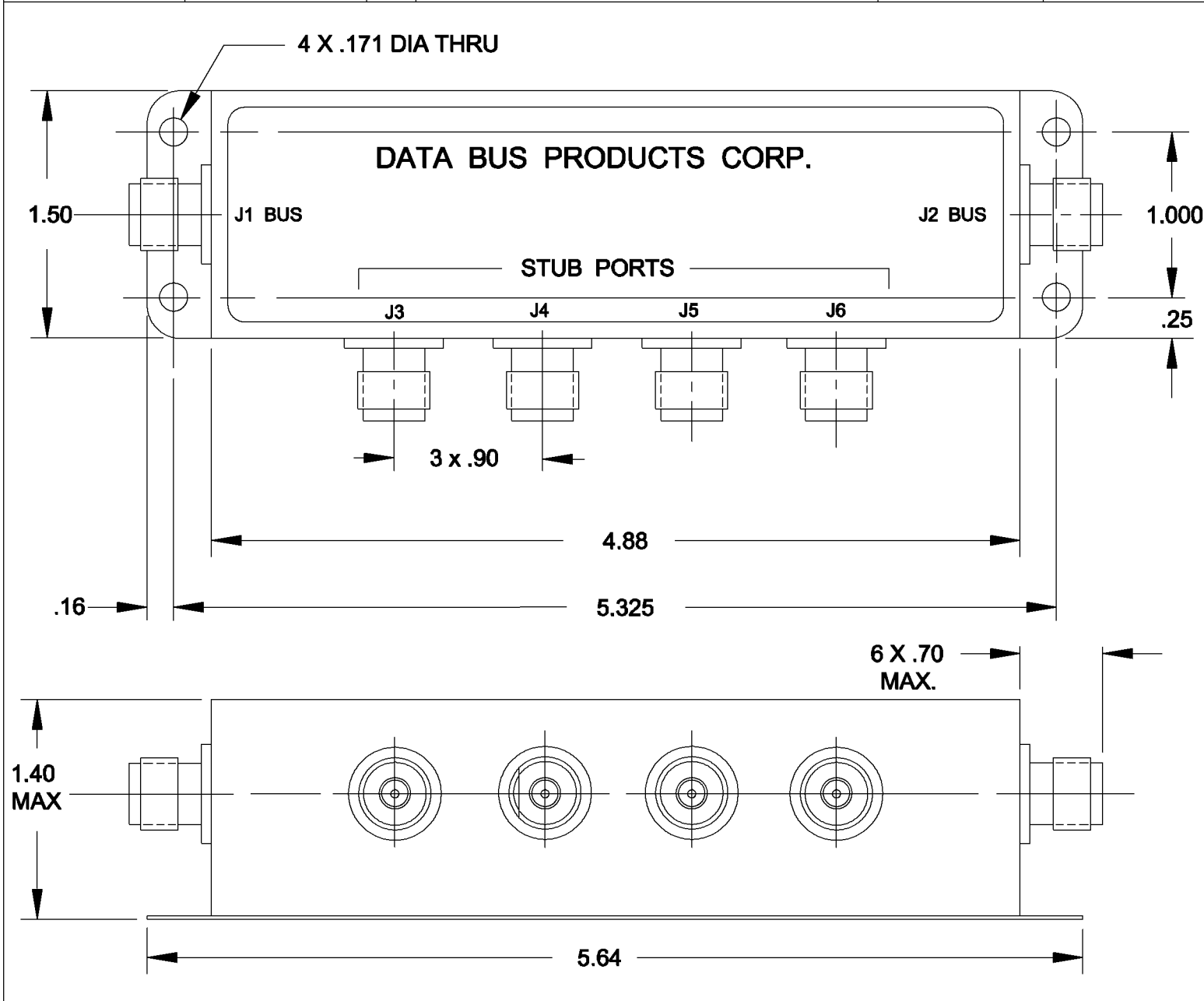


# APPLICATIONS

# REVISIONS

| NEXT ASSY | USED ON  | LTR | DESCRIPTIONS     | DATE         | APPROVED |
|-----------|----------|-----|------------------|--------------|----------|
|           | MULTIPLE | —   | BASELINE RELEASE | 04 / 21 / 99 |          |



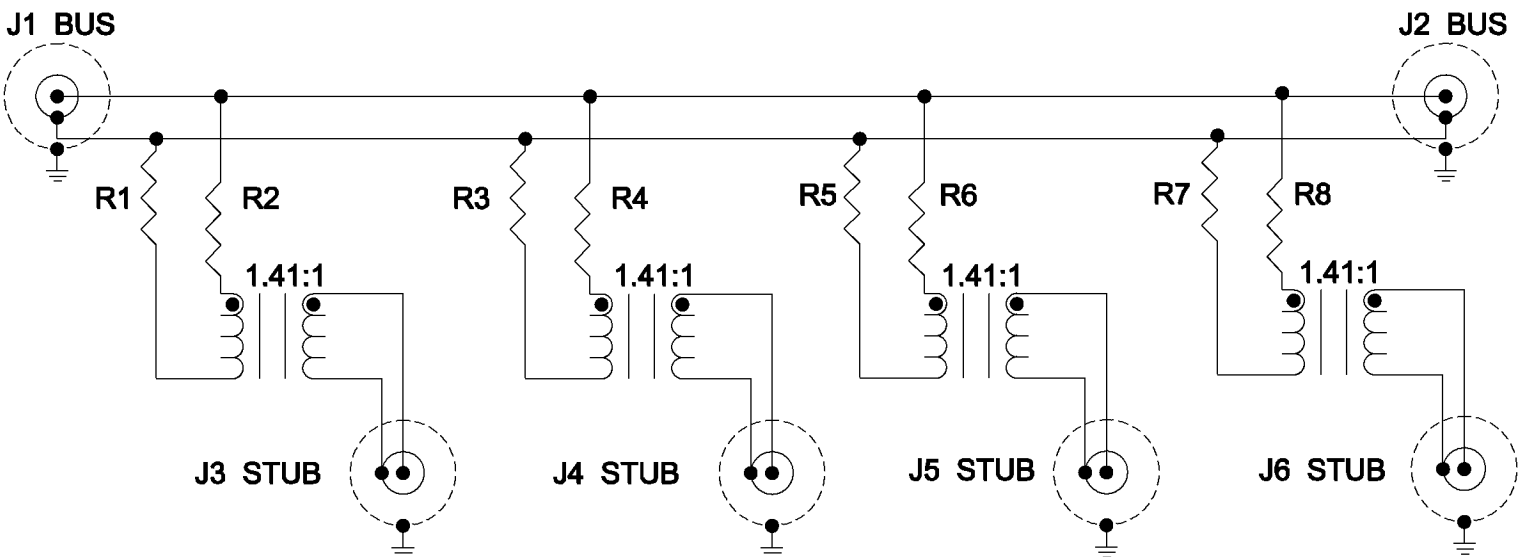
INTERFACE CONTROL DRAWING

| REV  | LTR | 1                          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13  | 14 | 15 | 16 | 17                          | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|--|-----|----------------------------|---|---|---|---|---|---|---|---|----|----|----|---|----|----|----|-----------------------------|----|----|----|--------|----|----|----|----|----|----|----|----|----|
|  |     |                            |   |   |   |   |   |   |   |   |    |    |    |   |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES 2PL ± .03 3PL ± .010 |     | CONTRACT NO.               |   |   |   |   |   |   |   |   |    |    |    | <b>DATA BUS PRODUCTS CORP.</b><br>MANHASSET, NEW YORK 11030<br><b>COUPLER, DATA BUS, 4 STUB MIL - STD - 1553B, THREADED</b> |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |
| MATERIAL   |     | PREPARED <b>W.S.</b>       |   |   |   |   |   |   |   |   |    |    |    |   |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |
| SEE PARAGRAPH 2.1  |     | CHECKED <b>990421</b>      |   |   |   |   |   |   |   |   |    |    |    | DRAWING NO. <b>DBP40040XS</b>   |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |
|  |     | ENGR.                      |   |   |   |   |   |   |   |   |    |    |    | SIZE <b>A</b>   |    |    |    | CODE IDENT NO. <b>03JJ7</b> |    |    |    | REV. — |    |    |    |    |    |    |    |    |    |
|  |     | ENGR.                      |   |   |   |   |   |   |   |   |    |    |    | SCALE : NONE  |    |    |    | SHEET 1 OF 2                |    |    |    |        |    |    |    |    |    |    |    |    |    |
|  |     | APPROVED                   |   |   |   |   |   |   |   |   |    |    |    |   |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |
|  |     | APPROVED BY OTHER ACTIVITY |   |   |   |   |   |   |   |   |    |    |    |   |    |    |    |                             |    |    |    |        |    |    |    |    |    |    |    |    |    |

# REVISIONS

| LTR | DESCRIPTIONS     | DATE         | APPROVED |
|-----|------------------|--------------|----------|
| —   | BASELINE RELEASE | 04 / 21 / 99 |          |

- 1.0 ELECTRICAL SPECIFICATIONS: IAW MIL - STD - 1553B.
- 1.1 COMMON MODE REJECTION: -55.0dB MAX @ 1.0MHz.
- 1.2 DROOP: 20% MAX (250kHz).
- 1.3 OVERSHOOT & RINGING: ± 1.0V PEAK (250kHz) SQUARE WAVE WITH 100ns MAX RISE & FALL TIME).
- 1.4 STUB VOLTAGE: 1.0V TO 14.0V P-P; LINE TO LINE; SIGNAL VOLTAGE, TRANSFORMER COUPLING.
- 1.5 INPUT IMPEDANCE OF BUS: 750 OHMS MIN. (75kHz - 1.0MHz), STUB WITH OPEN CIRCUIT.
- 1.6 FAULT PROTECTION: 58.5 OHMS ± 2% RESISTOR IN SERIES WITH TRANSFORMER WINDING ON BUS SIDE.
- 1.7 RESISTOR VALUE: 1 WATT IAW MIL - R - 39017, R1 - R8 (75%  $Z_0$ ).  
NOMINAL LINE IMPEDANCE OF BUS ( $Z_0$ ): 78 OHMS.
- 2.0 MECHANICAL SPECIFICATIONS:
- 2.1 MATERIAL: ENCLOSURE: COLD ROLLED STEEL, .031 THK..
- 2.1.1 MOUNTING PLATE: COLD ROLLED STEEL, .042 THK..
- 2.2 FINISH: BLACK ENAMEL PER TT - E - 529, COLOR IAW FED - STD - 595, #27028, OVER HOT TIN DIP.
- 2.3 CONNECTORS: BJ3157/BJ3150 THREADED (TROMPETER OR EQUIV.) J1 THRU J6.  
MATING CONNECTOR FOR REFERENCE: PL3155 (TROMPETER OR EQUIV.).
- 3.0 ENVIRONMENTAL:
- 3.1 OPERATING TEMPERATURE RANGE: -55°C TO 125°C.



## SCHEMATIC DIAGRAM

⊥ = ENCLOSURE GROUND

|              |                |              |
|--------------|----------------|--------------|
| SIZE         | CODE IDENT NO. | DRAWING NO.  |
| A            | 03JJ7          | DBP40040XS   |
| SCALE : NONE | REV. —         | SHEET 2 OF 2 |