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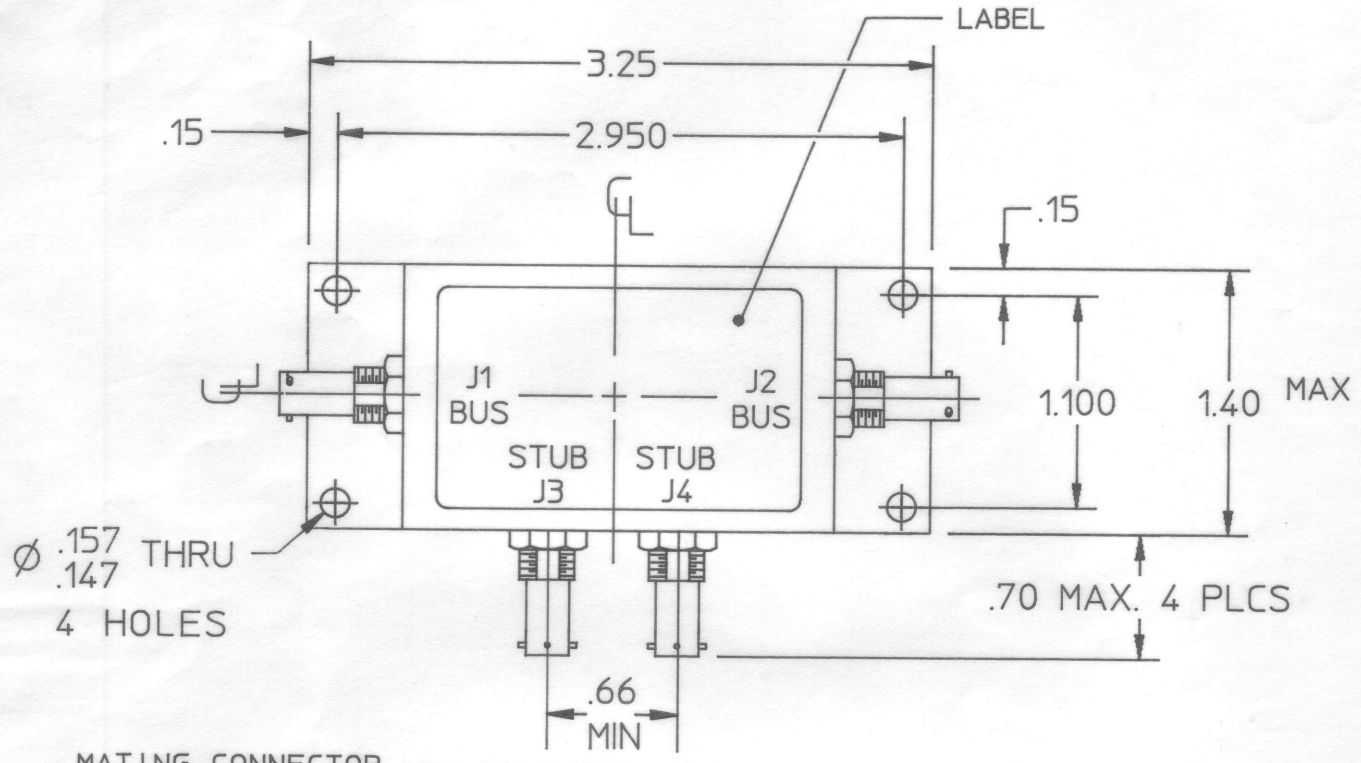
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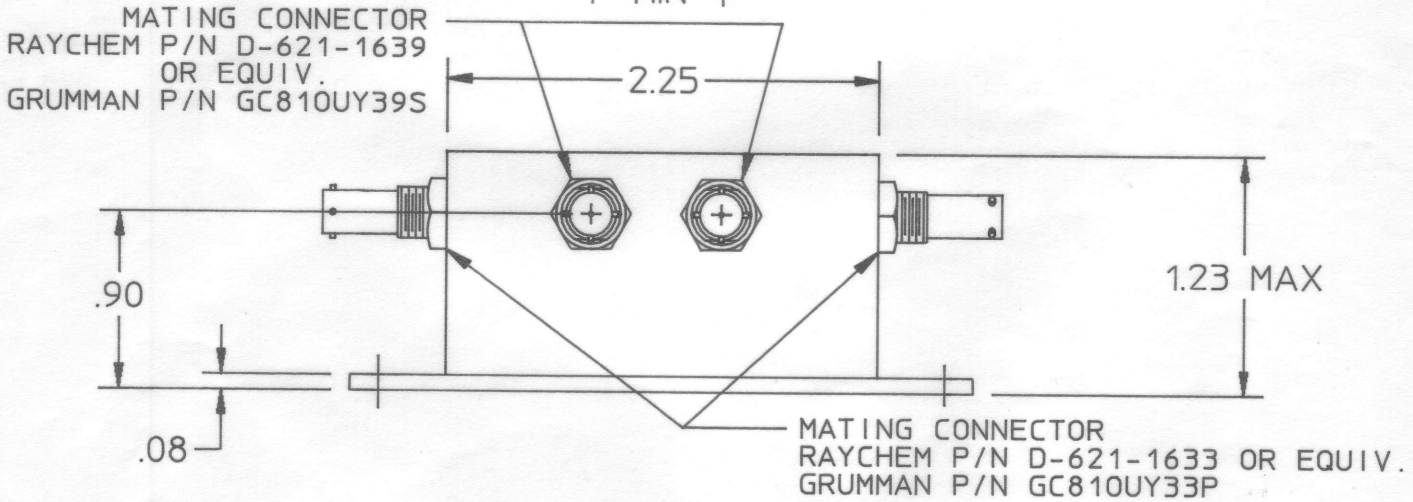
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SH 1

DWG NO. NH12677

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
	NH12677	D	ECN 493-2509 (REVISED & REDRAWN)	5/11/90 LB	





SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
REV	D	D	D												

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS
DEC SEE MECH. NOTE 1
ANGLES

MATERIAL SEE MECH. NOTE 2

FINISH SEE MECH. NOTE 3

CONTRACT NO.

DRAWN	FD	DATE 6/87
CHK	WS	6/25/87
ENGRG	WS	6/25/87
MFG	SAR	6/25/87
QA	RGK	6/25/87
STD		

North Hills Electronics, Inc.
GLEN COVE, N.Y. 11542

DATA BUS COUPLER MIL-STD-1553B OUTLINE DRAWING

SIZE	FSCM NO.	DWG NO.	REV
A	98821	NH12677	D

SCALE NONE SHEET 1 OF 3

MECHANICAL NOTES:

1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
   TOLERANCES: DECIMAL .XX±.02, .XXX±.005

2. MATERIAL: COUPLER - DESIGN AND CONSTRUCTION - THIS COUPLER WILL WITHSTAND THE STATIC HANDLING, INSTALLATION AND OPERATIONAL SERVICES AS SPECIFIED. THE COUPLER SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-STD-454 FOR PROCESS, PARTS AND MATERIALS, DESIGN CONSTRUCTION AND WORKMANSHIP. THE COUPLER SHALL BE A SPLASH PROOF, NON-REPAIRABLE ALUMINUM ALLOY CONSTRUCTION.

3. FINISH: COUPLER - THE COUPLER SHALL BE PAINTED WITH QUICK DRYING ENAMEL IN ACCORDANCE WITH TT-E-527. THE COLOR SHALL BE GRAY, NUMBER 36231, IN ACCORDANCE WITH FED-STD-595. THE MOUNTING SURFACE OF THE COUPLER SHALL BE TIN PLATED PER MIL-T-10727.

4. MARKING:
   a) ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE MANUFACTURER'S NAME, FSCM OR TRADEMARK, ITEM NUMBER AND REFERENCE DESIGNATIONS FOR CONNECTORS IAW MIL-STD-130.

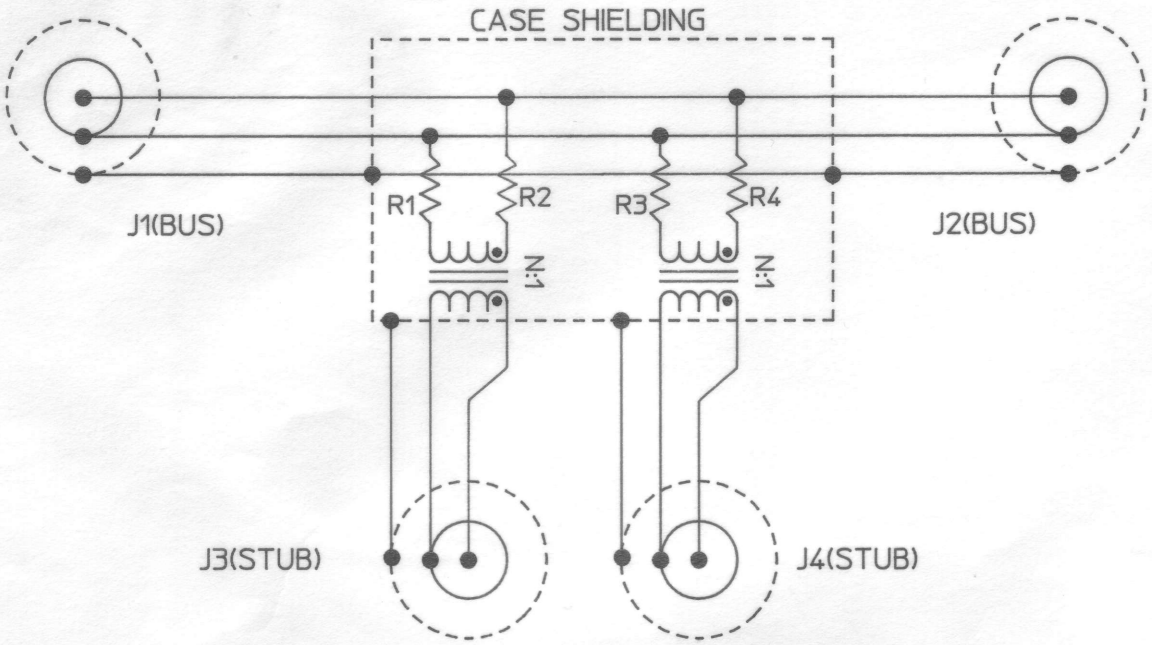
   b) PACKAGES SHALL BE LEGIBLY MARKED IAW MIL-STD-129.

ENVIRONMENTAL NOTES:

1. TEMPERATURE RANGE: -55°C TO +125°C

2. SERVICE CONDITIONS: COUPLER SHALL OPERATE UNDER ANY OF THE ENVIRONMENTAL SERVICE CONDITIONS AS SPECIFIED IN MIL-C-39012 FOR NON-HERMETIC PART.

3. SALT SPRAY CORROSION RESISTANT PER MIL-STD-1344, TEST METHOD 1001. TEST CONDITION C (500 HRS)



ELECTRICAL NOTES:

1. R1 THRU R4 = 0.75Zo (1 WATT PER MIL-R-39017)
2. Zo = NOMINAL LINE IMPEDANCE OF BUS = 78Ω
3. N = 1.41

ELECTRICAL SPECIFICATIONS: (IN ACCORDANCE WITH MIL-STD 1553B, NOTICE 1)

INPUT IMPEDANCE OF BUS (STUB OPEN CIRCUITED)	1,500 OHMS, MINIMUM (75 kHz TO 1.0 MHz)
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) AT 1.0 MHz
FAULT PROTECTION	58.5 Ω ±2% RESISTOR IN SERIES WITH EACH BUS WINDING CONNECTION
STUB VOLTAGE	1.0V TO 14.0V P-P, LINE-TO-LINE, SIGNAL VOLTAGE (TRANSFORMER COUPLED)

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