

REV	DESCRIPTION	BY DATE	APPD
G	REVISED PER ECR# 7997	C.W.B. 02/05/04	LMD

## NX SERIES CODE ORDER CHART - MetCon-2® Daughtercard Socket Connectors

### NX6A0AE01A1AF

2mm DAUGHTER CARD SOCKET CONNECTOR WITH 110 COMPLIANT SIGNAL CONTACTS, MULTIPURPOSE CENTER, FULLY LOADED, TOP SHIELD [5]

#### NOTES:

- [1] THIS CONNECTOR IS DESIGNED TO MEET THE APPLICABLE PERFORMANCE REQUIREMENTS OF IEC 61076-4-101.
2. DELETED.
3. CONNECTORS ARE END STACKABLE ON A .07874in/2mm GRID.
- [4] FOR COMPLIANT CONTACT PLATED THRU HOLE REQUIREMENTS SEE THRU HOLE PLATING VIEW. MINIMUM P.C. BOARD THICKNESS .062/1.57 NOMINAL.
- [5] OPTIONAL BOTTOM SHIELD SOLD SEPARATELY.
- [6] NO GAP PERMISSIBLE TO PC BOARD.

#### SPECIFICATIONS

#### MATERIALS

- [1] **Insulators** ————— Thermoplastic Polyester, glass filled  
Rated UL 94V-0. Color: Gray
- [2] **Contacts** ————— Copper Alloy  
Finish: Mating Zone = 30µ Gold over Nickel  
Compliant Zone = Tin/Lead  
Performance Level 2 = 250 cycles
- [3] **Top Shield** ————— Copper Alloy  
Finish: Nickel Plate

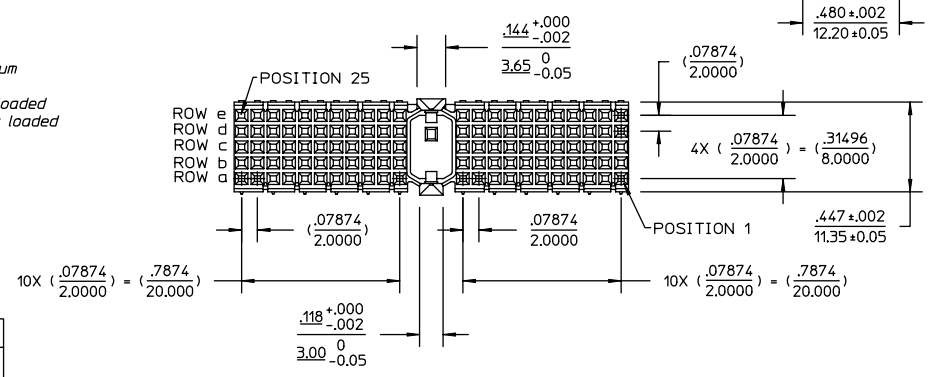
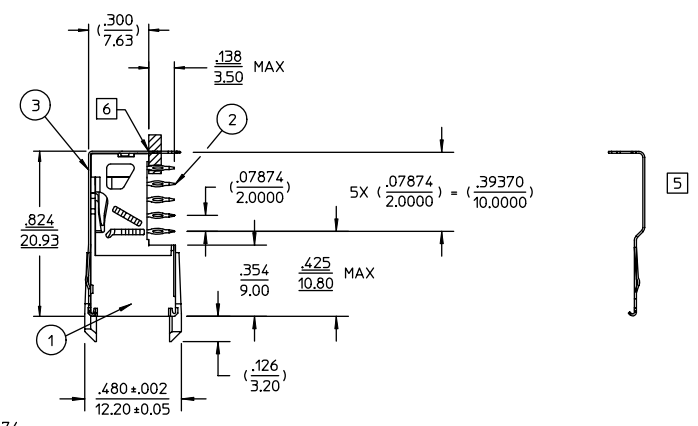
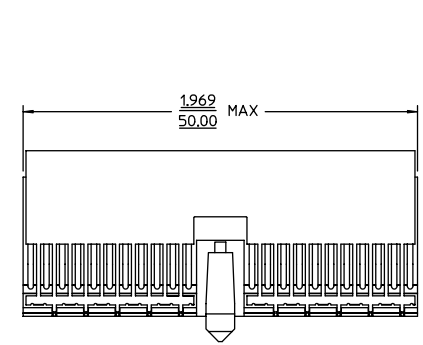
#### PERFORMANCE CHARACTERISTICS [1]

- Insulation resistance ————— 5,000 megohms minimum
- Dielectric withstanding voltage (at sea level) — 750 Vrms
- Current rating ————— 1 amp @ 70°C, fully loaded  
1.5 amp @ 20°C, fully loaded
- Operating temperature range ————— -55°C to +125°C
- Contact resistance ————— 20 milliohms maximum
- cUL Approved ————— File E31650

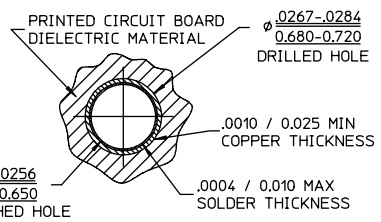
#### Compliant Contact

- Max. Insertion Force (per contact) ————— 22.5 lbs. / 100 N
- Min. Retention Force (per contact) ————— 4.5 lbs. / 20 N

CUSTOMER TOOLING REQUIRED			
DESCRIPTION	SEATING TOOL CATALOG No.	INSTRUCTION SHEET	DRAWING NUMBER
3U CompactPCI™ DAUGHTERCARDS PCB ASSEMBLY FIXTURE	107-43926	43521	43926
3U/6U CompactPCI™ DAUGHTERCARDS PCB ASSEMBLY FIXTURE	107-43927	43521	43927
FLAT ROCK SOCKET INSERTION TOOL FOR 5 ROW, 50 mm LONG SOCKET MODULES	107-43928-01	43521	43928

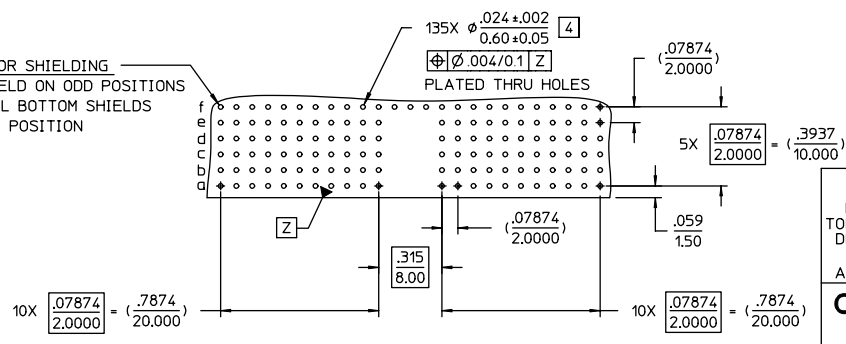


#### CATALOG No. NX6A0AE01A1AF SHOWN



THRU HOLE PLATING  
SCALE 10:1

ROW f FOR SHIELDING  
TOP SHIELD ON ODD POSITIONS  
OPTIONAL BOTTOM SHIELDS  
ON EVEN POSITION



RECOMMENDED PC BOARD REQUIREMENTS  
(COMPONENT SIDE OF BOARD SHOWN)

PER ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES OR INCHES/MM			
TOLERANCES: .XX ± .02/0.5 .XXX ± .004/0.10			
ANGLES ± --	SCALE: 1:1		
<b>CUSTOMER DRAWING</b>			
DRAWN C.W.B.	DATE 03/20/99	APPROVED W.P.M.	DATE 04/19/99
APPROVED A.E.E.	DATE 04/19/99	APPROVED S.W.A.	DATE 04/19/99

**NORTHROP GRUMMAN**

Winchester Electronics

82 Barnes Industrial Road North  
Wallingford, CT 06492

TITLE  
MetCon-2® NX6 SERIES  
DAUGHTERCARD SOCKET CONNECTOR  
MODULE STYLE A

A	29617	SHT. 1 OF 1	REV. G
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