

3M™ CF Card Header

CompactFlash™ Type II, Long Guides, Surface Mount

7E50 Series



- Headers mate with both CompactFlash™ Type I and Type II cards
- Polarization options for top or bottom boardmount
- Extended guide rails enable accurate and easy card insertion
- Single row surface mount solder tails facilitate auto placement and IR soldering
- Optional 2 mm board standoff enables board population
- Meets CFA standards for known compatibility and reliability
- Metal brace provides stability for ejector attachment
- Multiple styles of ejector available
- Optional ejector can be purchased pre-assembled or separately
- Optional Tape and Reel or Tray packaging for automated assembly
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: August 16, 2010

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Physical

Insulation:

Material: High Temperature Thermoplastic

Flammability: UL 94V-0

Color: Beige

Contact:

Material: Copper Alloy

Plating:

Underplating: 2.03 μm [80 μ''] Nickel

Wiping Area: 0.38 μm [15 μ''] or 0.76 μm [30 μ''] Gold

Solder Tails: 3.81 μm [150 μ''] Matte Tin or Gold Flash

Marking: 3M Logo

Electrical

Current Rating: 0.5 A

Insulation Resistance: $10^3 \Omega$ at 500 V_{DC}

Withstanding Voltage: 500 V_{AC} for 1 minute

Environmental

Temperature Rating: -40°C to +85°C

Process Rating: Maximum 260 C (per J-STD-020C)

Moisture Sensitivity Level: 1 (per J-STD-020C)

CompactFlash is a registered trademark of Sandisk Corporation.

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| Pin Function | L, Pin length Dim | Pin Position |
|--------------|-------------------|----------------|
| Detect | 3.50 mm [.138"] | 25, 26 |
| General Use | 4.25 mm [.167"] | All other pins |
| Power | 5.00 mm [.197"] | 1, 13, 38, 50 |



Note: See TS-2154 for applicable ejectors and drawings of assembled ejectors and headers.

Ordering Information

N7E50 - X516XX - XX - XXX (RIA E1 & C1 apply)

M = CF I & II, 31.60 mm, Normal Type, Metal Guide
 N = CF I & II, 31.60 mm, Inverse Type, Metal Guide

Plating Options:

RA = 0.38 μm [15 μ"] Gold with matte tin tail
 RB = 0.76 μm [30 μ"] Gold with matte tin tail
 EA = 0.38 μm [15 μ"] Gold with Au Flash tail
 EB = 0.76 μm [30 μ"] Gold with Au Flash tail

Board Standoff:
 40 = None
 50 = 2.00 mm [.079"]

Pre-assembled Ejector Option:
 Blank = No Ejector
 A = Right Dual Push Ejector (7E50-B516-05)
 C = Left Dual Push Ejector (7E50-B616-05)

*Packaging Options:
 Blank = Standard White Polystyrene Trays
 WF = Tape and Reel (Automated Assembly)
 Note: WF option includes molded suction cap for automated pick and place

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| Part Number | E mm [inch] | F mm [inch] | G mm [inch] | H mm [inch] | K mm [inch] | Pin W | Pin X | Pin Y | Pin Z |
|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|--------|--------|--------|
| N7E50-M516XX-40 | 0.00 [.000] | 6.30 [.248] | 1.40 [0.55] | 0.80 [.031] | 2.35 [.093] | Pin 1 | Pin 25 | Pin 26 | Pin 50 |
| N7E50-M516XX-50 | 2.00 [.079] | 8.30 [.328] | 1.40 [.055] | 0.80 [.031] | 4.35 [.171] | Pin 1 | Pin 25 | Pin 26 | Pin 50 |
| N7E50-N516XX-40 | 0.00 [.000] | 6.30 [.248] | 0.80 [.031] | 1.40 [.055] | 3.95 [.156] | Pin 50 | Pin 26 | Pin 25 | Pin 1 |
| N7E50-N516XX-50 | 2.00 [.079] | 8.30 [.328] | 0.80 [.031] | 1.40 [.055] | 5.95 [.234] | Pin 50 | Pin 26 | Pin 25 | Pin 1 |
| N7E50-H516XX-50 | 2.00 [.079] | 7.90 [.311] | 1.40 [.055] | 0.80 [.031] | 4.15 [.163] | Pin 1 | Pin 25 | Pin 26 | Pin 50 |



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Standard White Polystyrene Trays (No Eject Attached)



Standard tray notes :

1. Material: PS
2. Packaging quantity:
 - 1 Tray: 18 pcs
 - 1 Carton box: 15 trays per carton (270 pcs total)
3. Carton size: 340 mm (L) by 230 mm (W) by 255 mm (H)
4. Standard tray packaging is not suitable for suction-type pick-and-place Operations. Pick-and-place capable tray packaging is available on request. Contact 3M technical service.
5. For product with pre-assembled ejectors contact 3M technical service for dimensioned drawings.

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- Защита от снятия компонента с производства.



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