

# 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](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: August 16, 2010

TS-2083-G  
Sheet 1 of 5

## Physical

### Insulation:

Material: High Temperature Thermoplastic

Flammability: UL 94V-0

Color: Beige

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 2.03  $\mu\text{m}$  [ 80  $\mu''$  ] Nickel

Wiping Area: 0.38  $\mu\text{m}$  [ 15  $\mu''$  ] or 0.76  $\mu\text{m}$  [ 30  $\mu''$  ] Gold

Solder Tails: 3.81  $\mu\text{m}$  [ 150  $\mu''$  ] 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)

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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

TS-2083-G  
 Sheet 2 of 5

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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 [.055]	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



TS-2083-G  
Sheet 3 of 5

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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.

TS-2083-G  
Sheet 4 of 5



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