

3M™ CF Card Header

CompactFlash™ Type II, 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
- Guide rail ESD clip contacts board ground pads
- 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
- RoHS compliant* version (RA or RB plating suffix) available

Date Modified: January 30, 2006

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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''] and 0.76 μm [30 μ''] Gold
Solder Tails: 2.54 μm [100 μ''] 90/10 Tin Lead or 3.81 μm [150 μ''] Matte tin (RoHS compliant) (see ordering information)

Electrical

Current Rating: 0.5 A
Insulation Resistance: 10^3 M Ω at 500 VDC
Withstanding Voltage: 500 VAC 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)

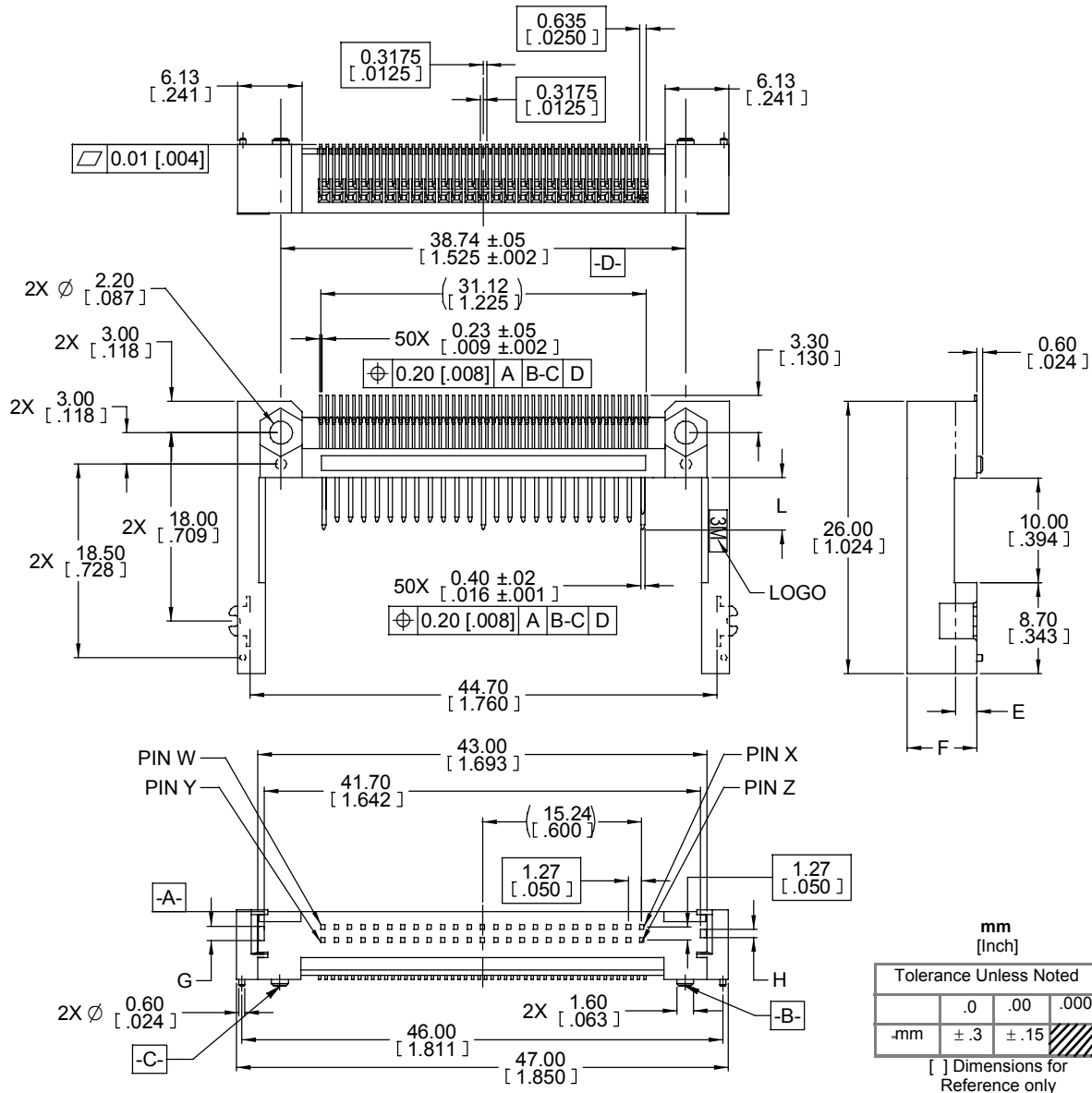
*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated in writing by 3M, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

CompactFlash is a registered trademark of Sandisk Corporation.

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Pin Function	L, Pin length Dim	Pin Position
Detect	3.50 [.138]	25, 26
General Use	4.25 [.167]	All other pins
Power	5.00 [.199]	1, 13, 38, 50



Ordering Information

N7E50 - X516XX - XX - WF

Q = CF I & II, 18.70 mm, Normal Type, Ejector not acceptable
R = CF I & II, 18.70 mm, Inverse Type, Ejector not acceptable

- Packaging Options:
Blank = Trays
WF = Tape and Reel

Plating Options: _____
 TH = 0.38 μm [15 μin] Gold with Sn-Pb tail
 TC = 0.76 μm [30 μin] Gold with Sn-Pb tail
 RA = 0.38 μm [15 μin] Gold with matte tin tail (RoHS compliant)
 RB = 0.76 μm [30 μin] Gold with matte tin tail (RoHS compliant)

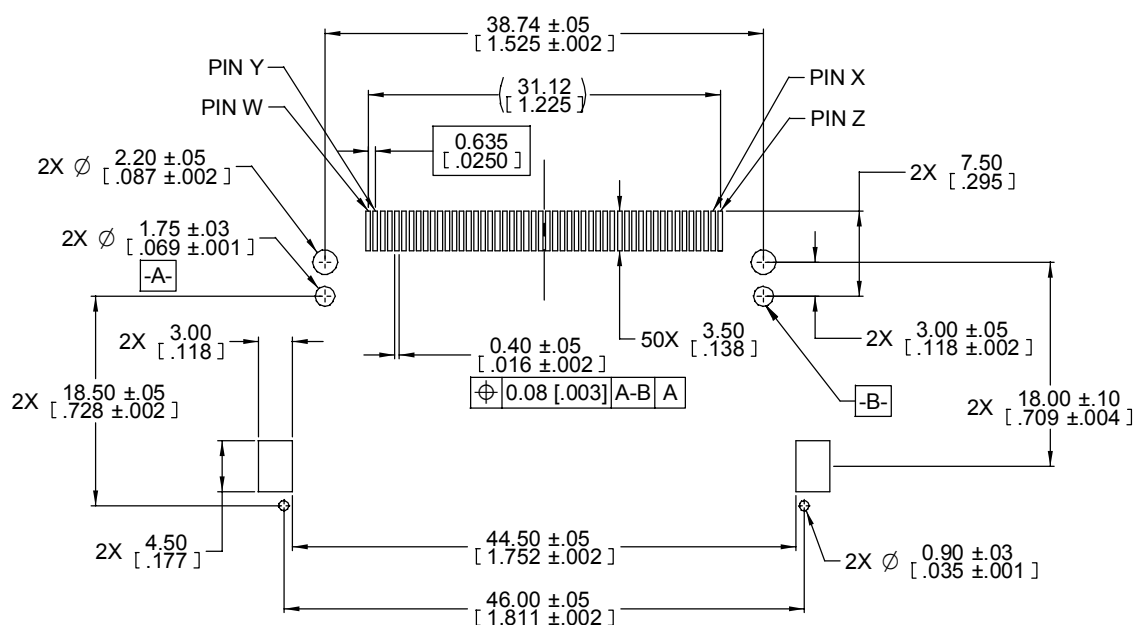
—Board Standoff:
40 = None (Normal Type Only)
50 = 2.00 mm [.079"]

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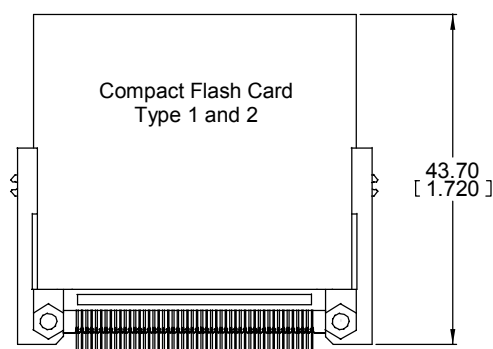
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Part Number	E mm [inch]	F mm [inch]	G mm [inch]	H mm [inch]	Pin W	Pin X	Pin Y	Pin Z
N7E50-Q516XX-40	0.00 [.000]	6.65 [.262]	1.40 [.055]	0.80 [.031]	Pin 1	Pin 25	Pin 26	Pin 50
N7E50-Q516XX-50	2.00 [.079]	8.65 [.341]	1.40 [.055]	0.80 [.031]	Pin 1	Pin 25	Pin 26	Pin 50
N7E50-R516XX-50	2.00 [.079]	8.65 [.341]	0.80 [.031]	1.40 [.055]	Pin 50	Pin 26	Pin 25	Pin 1



PCB LAYOUT



CARD INSERTION

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