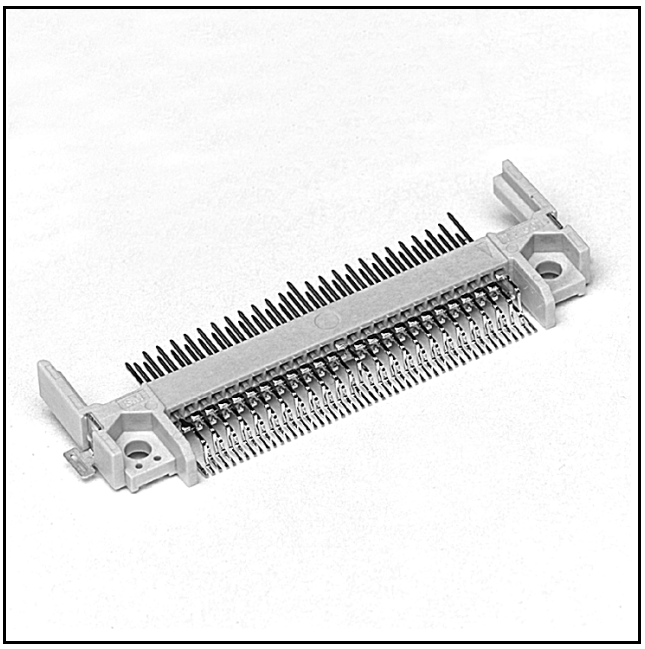
3M™ CF Card Header

CompactFlash™ Type I, Low Profile, Surfacemount 7E50 Series



- Meets CFA standards
- 4.0 mm low profile height
- Single row solder tails with 0.635 mm spacing
- Ejector option for easy removal of CF Card
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: May 2, 2007

Physical

Insulation	
Material:	Liquid Crystal Polymer (LCP)
Flammability:	UL 94V-0
Color:	Beige
Contact	
Material:	Copper Alloy
Plating	
Underplating:	100 μ″ [2.54 μm] Nickel
Wiping Area:	Gold flash over 80/20 Palladium Nickel, Lubricated (see Ordering Information)
Solder Tails:	50 μ″ [1.27 μm] 85/15 Tin Lead - or Gold Flash (see Ordering Information)
Marking	3M Logo, Part Number, Date Code

Electrical

Current Rating:	.5 A
Insulation Resistance:	$>1 \times 10^9$ Ω at 500 V_{DC} $>1 \times 10^8$ Ω at 500 V_{DC} after Environmental Conditioning
Withstanding Voltage:	500 V_{RMS} at Sea Level

Environmental

Temperature Rating:	-55°C to +85°C
Process Rating:	Maximum 260°C (per J-STD-020C)

UL File No.: E68080

CompactFlash is a registered trademark of the SanDisk Corporation.

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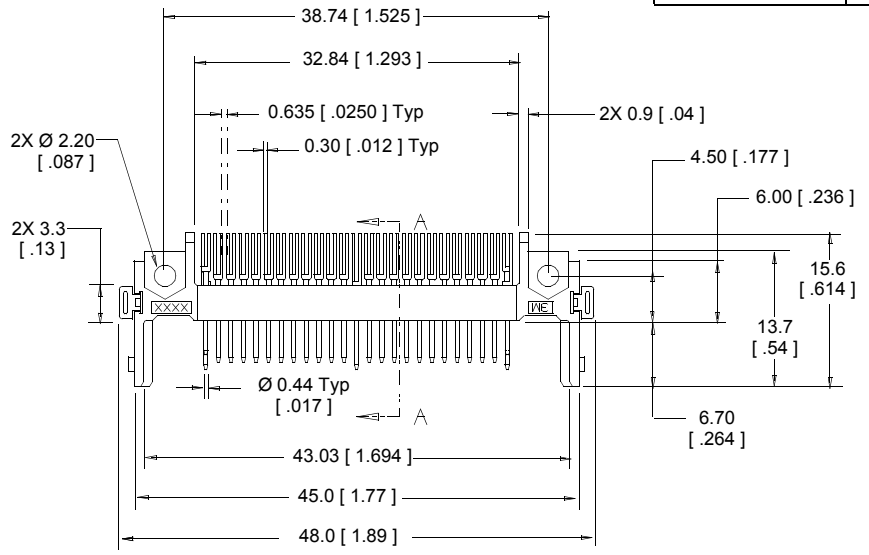
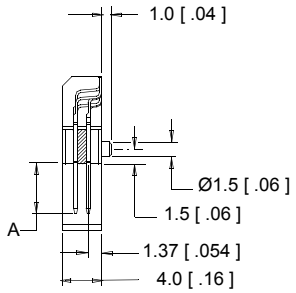
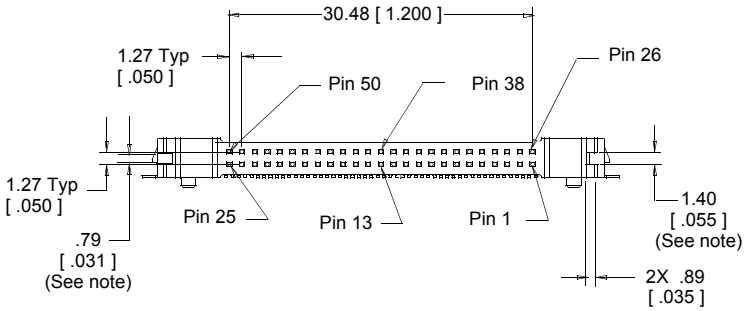
Pin Type	Interface Dim A	Pin No.
detect	3.50 [.138]	25, 26
general	4.25 [.167]	all other pins
power	5.00 [.197]	1, 13, 38 & 50





Section A-A



mm
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	± .3	± .15	

[ ] Dimensions for Reference only

Note: Inverse (Option “A”) style shown. For Normal style rotate polarization keys and pin call outs 180°.

Ordering Information

N7E50-X516XX-30

Options: CF Card Polarization / Solder Tabs / Ejector:
A = Inverse / with solder tab / ejector acceptable
C = Normal / without solder tab / ejector not acceptable
D = Normal / with solder tab / ejector not acceptable
E = Normal / with solder tab / ejector acceptable

Options: Plating
VY = Au Flash over 20μ" [0.50μm] PdNi Lubricated with Sn-Pb tails (RIA E3 & C2 apply)
VU = Au Flash over 25μ" [0.64μm] PdNi Lubricated with Sn-Pb tails (RIA E3 & C2 apply)
PG = Au Flash over 25m" [0.64mm] PdNi Lubricated with Au Flash tails (RIA E1 & C1 apply) Available for "D" product option only.
PK = Au Flash over 20μ" [0.5μm] PdNi Lubricated with Au flash tails (RIA E1 & C1 apply)

3M
Interconnect Solutions
http://www.3M.com/interconnects/

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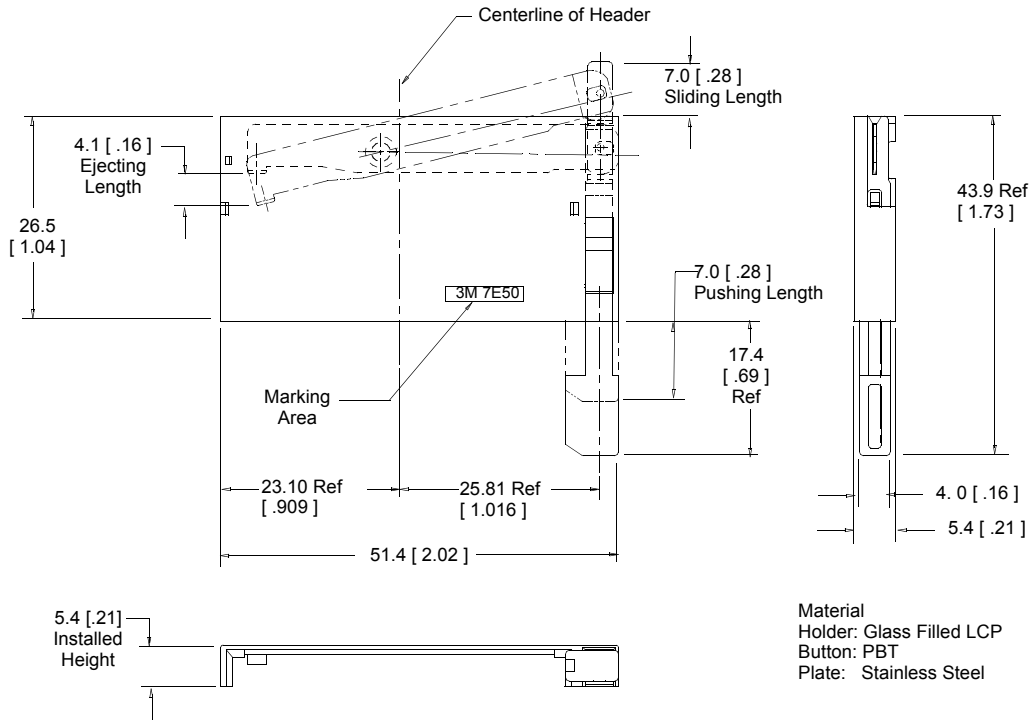
For technical, sales or ordering information call
800-225-5373

3M™ CF Card Header

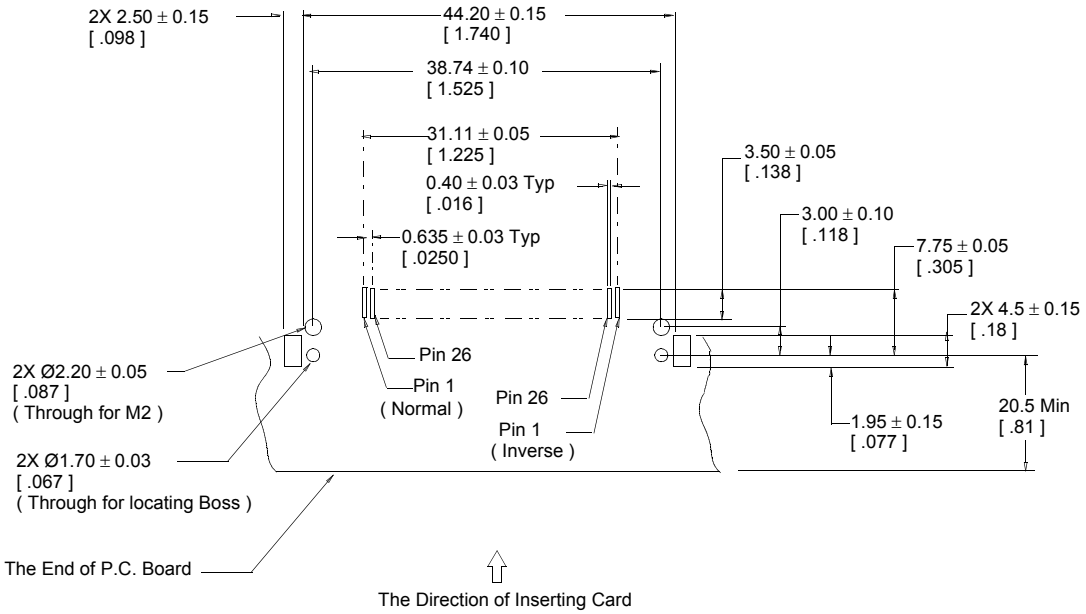
CompactFlash™ Type I, Low Profile, Surfacemount 7E50 Series

Right Button Ejector 3M Part D7E50-8316-03

(Order Separately)



Material
Holder: Glass Filled LCP
Button: PBT
Plate: Stainless Steel



Recommended PCB Solder Pad Pattern

TS-0747-B
Sheet 3 of 3

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Regulatory Information Appendix
3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/17/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA

Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, 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: (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 by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (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 by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Important Notice

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Warranty; Limited Remedy; Limited Liability.
This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

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