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3M

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CompactFlash™ Interconnects



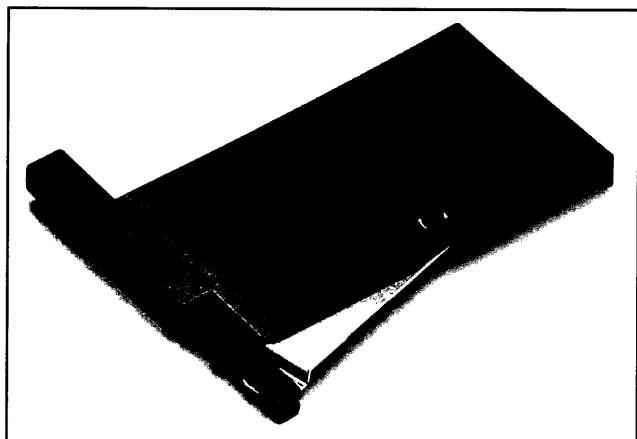
3M Committed to CompactFlash™ Technology

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In October, 1999, the CompactFlash Association (CFA) was established to standardize and promote CompactFlash™ technology as an open industry standard. The idea is to eliminate future compatibility issues between different hosts and different vendors. CF technology is essentially a PCMCIA card adapted to a smaller form factor. Because CF complies with the PCMCIA-ATA electrical interface standards, various flash suppliers can provide CF compatible products, independent of differences in the underlying flash memory technology employed by the various suppliers. CFA provides a framework for 3M to contribute advance interconnect technology in a worldwide market. As a member of CFA, you can rely on 3M for CompactFlash™ card compatibility.



3M Is Your Connection To CompactFlash™, The World's Smallest Removable Storage System.

If you are designing-in data storage for your next generation, hand-held portable device, be sure to spec 3M's interconnect components. 3M manufactures a full line of components and accessories for the CompactFlash™ card; you can get headers, ejectors, and adapters—the total interconnect solution—from a single source. 3M's interconnect components meet PCMCIA, JEIDA PC card standards, and CF specifications.



3M™ Ejector for CompactFlash™ Card

The 3M Ejector provides easy removal of the CF card from the right angle header.

- Shroud easily attaches to header after soldering
- Light and compact ejector mechanism
- Simple mechanism for reliable operation

Technical Data

3M Part Number D7E50-7316-02
Specification Sheet Number TS-0662-04

Components	Material
Shroud	Liquid Crystal Polyester (LCP) UL 94V-0, Black
Push Button	Glass Reinforced Polyester (PBT) UL 94V-0, Black
Lever Plate	Stainless Steel

Environmental Specifications

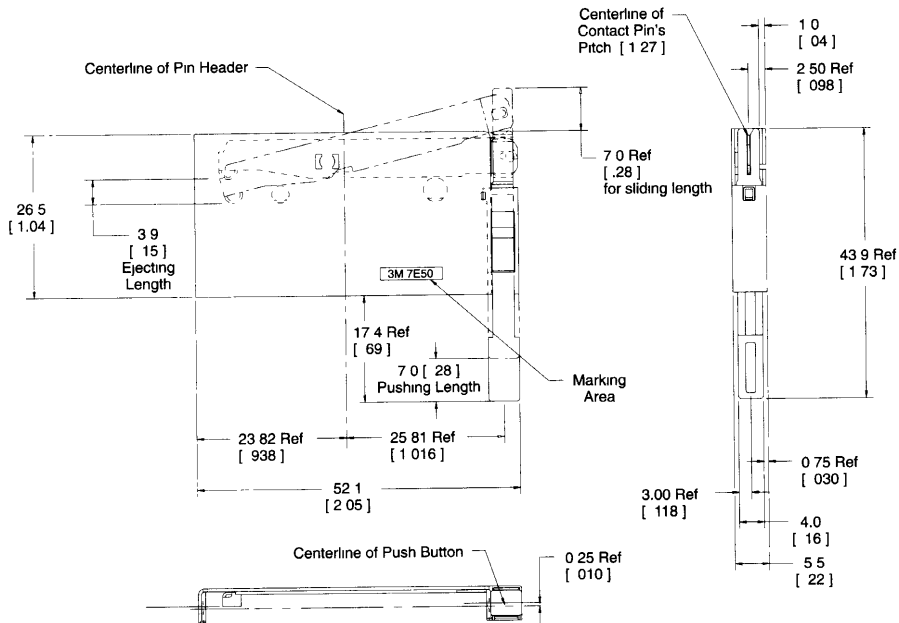
Item	Rating
Operating Temperature	-55°C to 85°C under 95% (non-condensing) RH
Storage Temperature	-40°C to 70°C under 95% (non-condensing) RH



3M™ Ejector for CompactFlash™ Card

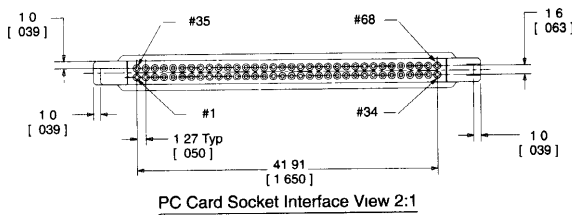
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Right Button Ejector 3M Part D7E50-7316-02
(Order Separately)



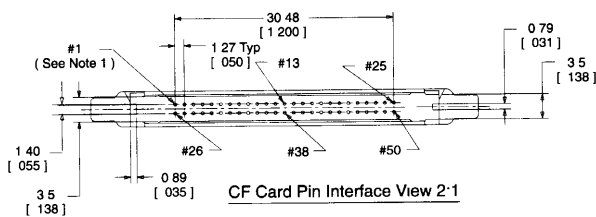
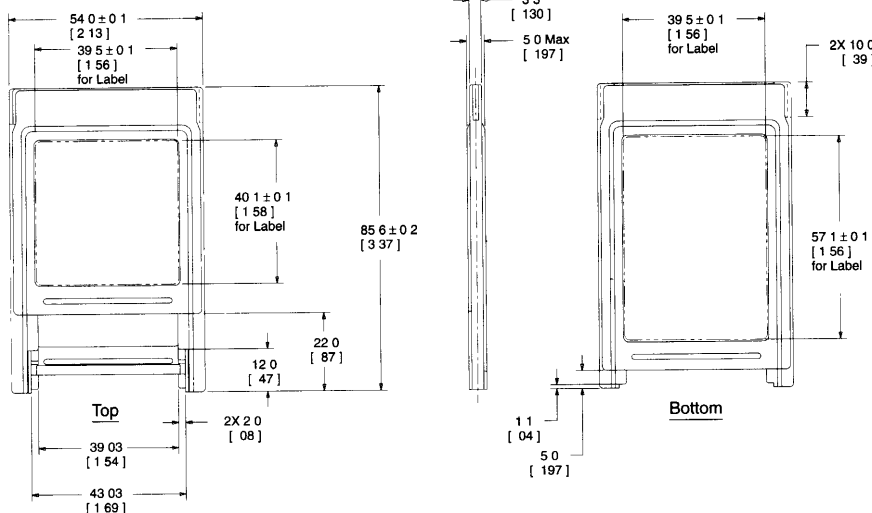
TS-0662-04

3M™ CompactFlash™ to PC Card Adapter



PC Card Socket Interface View 2:1

Pin Number	Pin Length ± .010
25, 26	3.50 [.137]
All other pins	4.25 [.167]
1, 13, 38, 50	5.00 [.196]



CF Card Pin Interface View 2:1

Note 1 See table for pin lengths of 50 position header

mm [inch]		
Tolerance Unless Noted		
	.0	.00 .000
mm	±.3	±.13

[] Dimensions for Reference only

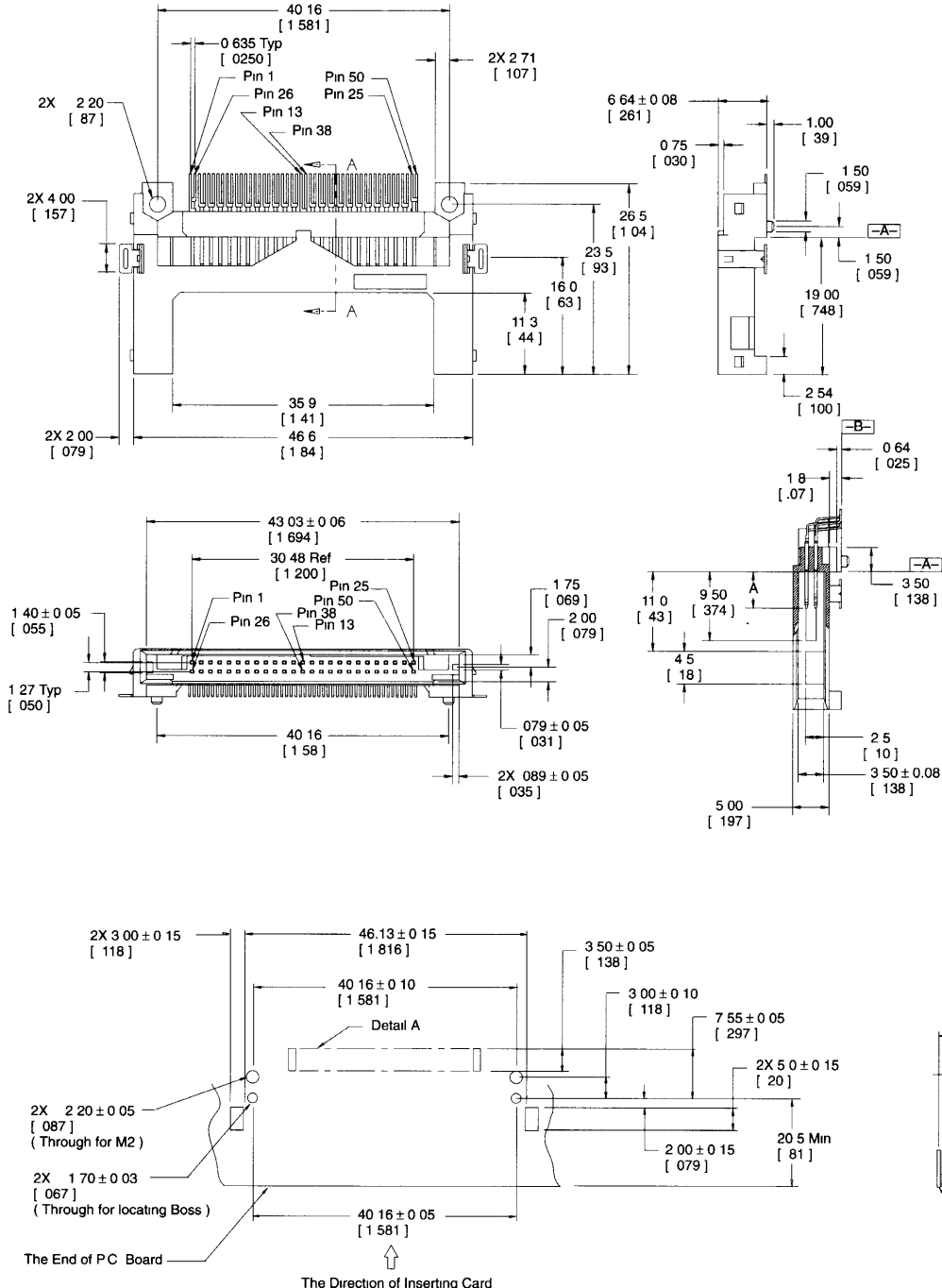
3M™ Surface Mount CF Card Header

.050 x .050 ; 50-Position

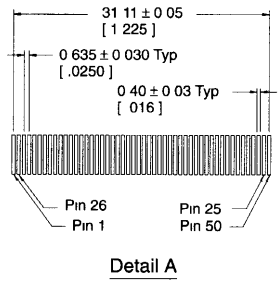
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3M Part N7E50-7516VY-20

Pin Type	Interface Dim A	Pin No.
detect	3.50 [.137]	25, 26
general	4.25 [.167]	all other pins
power	5.00 [.196]	1, 13, 38 & 50



Recommended PCB Solder Pad Pattern



Section A-A

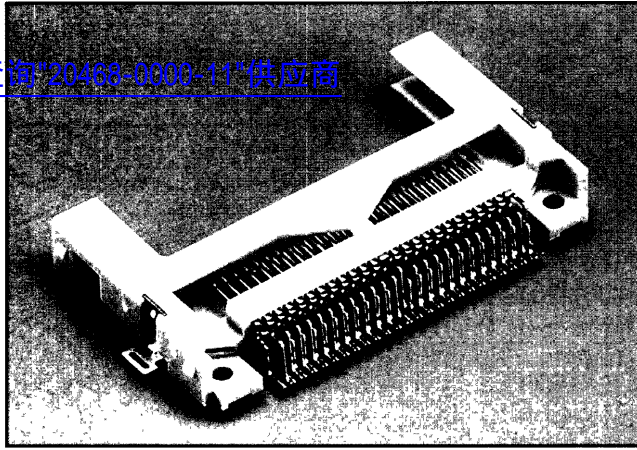
mm
[Inch]

Tolerance Unless Noted		
	.0	.00
	.00	.000
mm	±.3	±.13

[] Dimensions for Reference only

TS-0662-04

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3M™ Surface Mount CF Card Header

The 3M 50-position right angle surface mount header interfaces to the 50-position CF socket in the CompactFlash™ card.

- Low profile design - 6.64 mm height
- Single row solder tails - 0.635 mm spacing
- Board component clearance - 1.64 mm standoff
- Screw-on mounting in addition to SMT solder tabs - provides added stability
- Optional ejector - to assist in card removal

Technical Data

3M Part Number
Specification Sheet Number

N7E50-7516VY-20
TS-0662-04

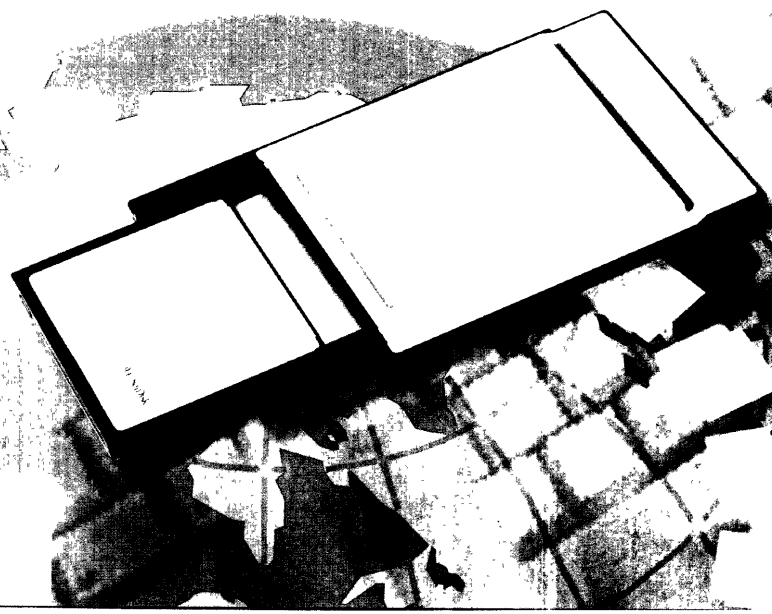
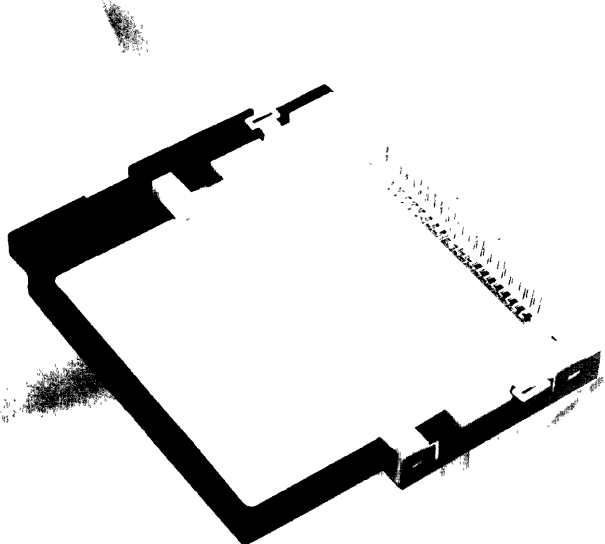
Components	Material
Body	Liquid Crystal Polyester (LCP) UL 94 V-0, Beige
Contact	Copper Alloy
Contact Plating	Underplate: Nickel Wiping Area: Gold over Palladium Nickel Solder Tails: Tin Lead
Solder Tab	Copper Alloy
Solder Tab Plating	Tin

Electrical Specifications

Item	Rating
Current Rating	0.5 A
Insulation Resistance	>1x 109Ω at 500 Vdc
Withstanding Voltage	500 Vrms at Sea Level

Environmental Specifications

Item	Rating
Operating Temperature	-55°C to 85°C
Processing Temperature	Maximum 235°C, with 90 seconds over 215°C



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3M™ CF Adapter for the Compact Flash™ Card

The 3M CF Adapter contains a 68-position PC Card socket (3M Part Number 9M68-1003TB) at one end, and a 50-position straddlemount CF header (3M Part Number 964716-01-25-30) at the other end.

The miniature memory storage card contains a 50-position CF memory card socket (3M Part Number 9M50-1091TB) which interfaces with the 50-position straddlemount CF header in the 3M CF Adapter.

Important Notice

Technical information provided by 3M is based on experience and/or tests believed to be reliable but their accuracy is not guaranteed and the results may not be relevant to every user's application

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Technical Data

3M Part Number 20468-0000-00 (without 3M label)
20468-0000-11 (with 3M label)

Specification Sheet Number TS-0662-04

Components	Material
Frame	Glass Reinforced Polyester (PBT) UL 94V-0, Black
Covers	Stainless Steel

Environmental	Rating
Operating Temperature	0°C to 55°C under 95% (non-condensing) RH
Storage Temperature	-40°C to 70°C under 95% (non-condensing) RH

- PCMCIA/JEIDA PC card standard
- Converts CompactFlash™ card to PC card
- Compatible with PC card slot (Type-II)
- Protective stainless steel covers - rugged and reliable

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