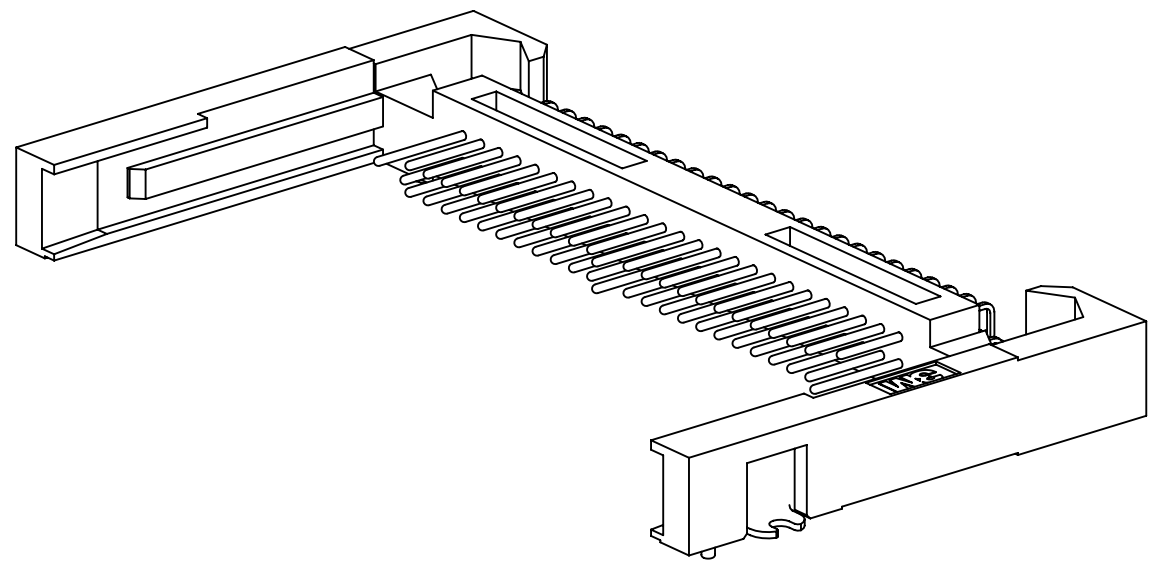
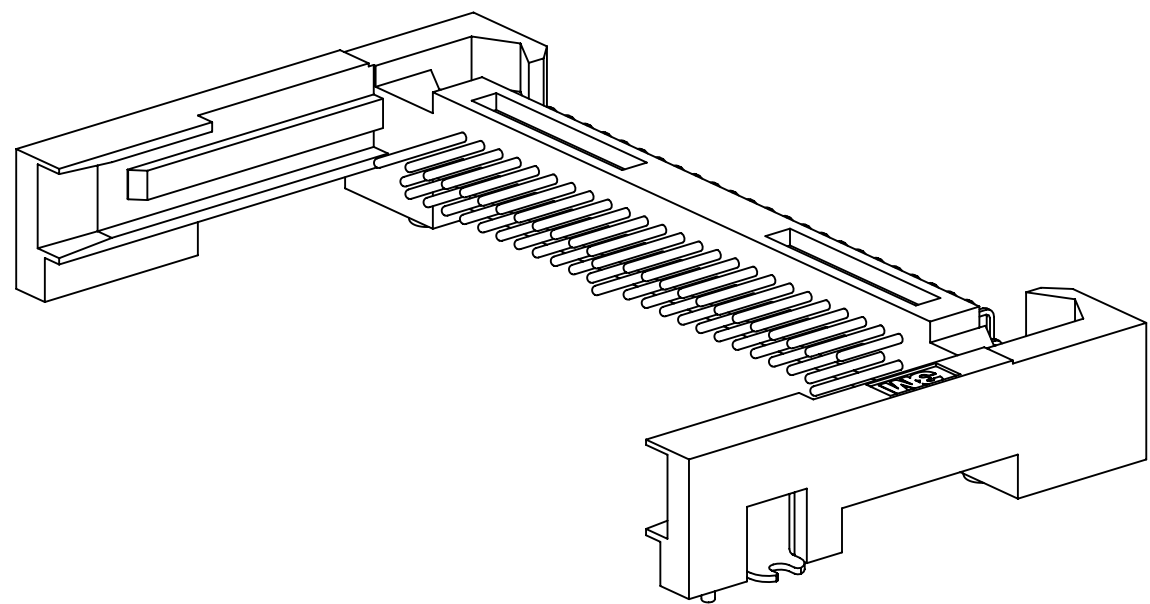


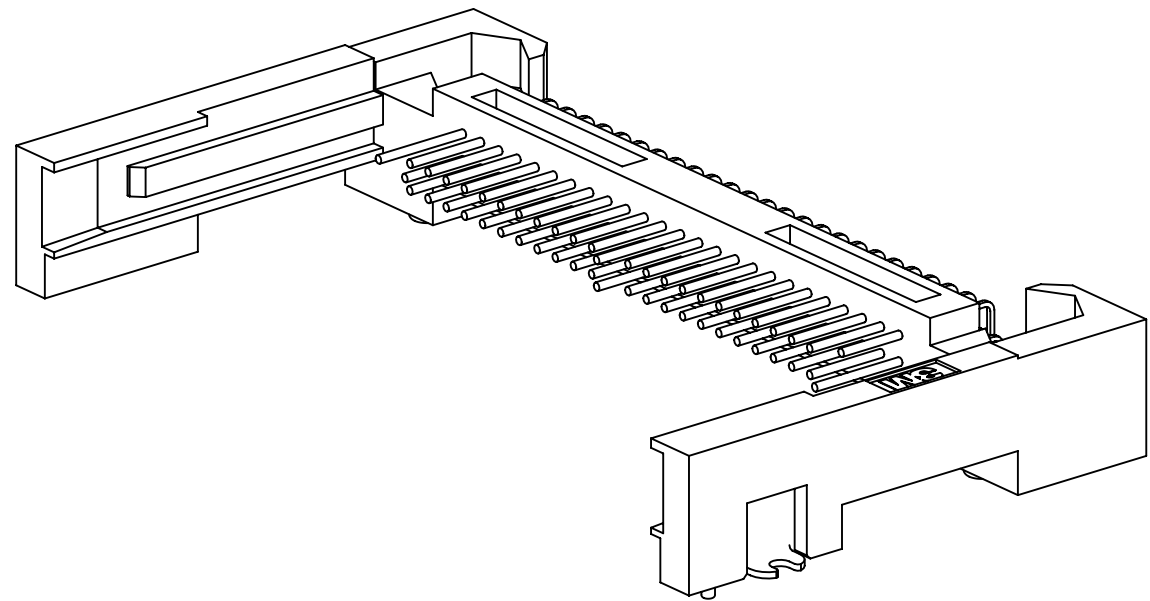
3M™ CF CARD HEADER, 7E50 SERIES
COMPACTFLASH™ TYPE II, SURFACE MOUNT



N7E50-Q516-XX-40
WITHOUT STANDOFF



N7E50-Q516-XX-50
WITH STANDOFF



N7E50-R516-XX-50
INVERSE
WITH STANDOFF

- * 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.
- * OPTION 2mm BOARD STANDOFF ENABLES BOARD POPULATION.
- * MEETS CFA STANDARDS FOR KNOWN COMPATIBILTY AND RELIABILITY.



2 PHYSICAL :

INSULATION: HIGH TEMPERATURE THERMOPLASTIC
MATERIAL: UL94V-0
FLAMMABILITY: COLOR: BEIGE
CONTACT: MATERIAL: COPPER ALLOY
PLATING: UNDER PLATING: 2.03µm [80µ"] NICKEL-OVERALL
WIPING AREA: 0.38µm [15µ"] OR 0.76µm [30µ"] GOLD
SOLDER TAILS: 3.81µm [150µ"] MATTE TIN OR GOLD FLASH
MARKINGS: 3M LOGO

2 ELECTRICAL :

CURRENT RATING: 0.5 A
INSULATION RESISTANCE: 10⁹ MΩ AT 500 V_{DC}
WITHSTANDING VOLTAGE: 500V_{AC} FOR 1 MINUTE

2 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)

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

PLATING OPTIONS:
RA = 0.38µm [15µ"] GOLD WITH MATTE TIN TAIL
RB = 0.76µm [30µ"] GOLD WITH MATTE TIN TAIL
EA = 0.38µm [15µ"] GOLD WITH Au FLASH TAIL
EB = 0.76µm [30µ"] GOLD WITH Au FLASH TAIL

PACKAGING OPTIONS:
BLANK = TRAYS
WF = TAPE AND REEL

BOARD STANDOFF:
40 = NONE (NORMAL TYPE ONLY)
50 = 2.00 mm [.079"]

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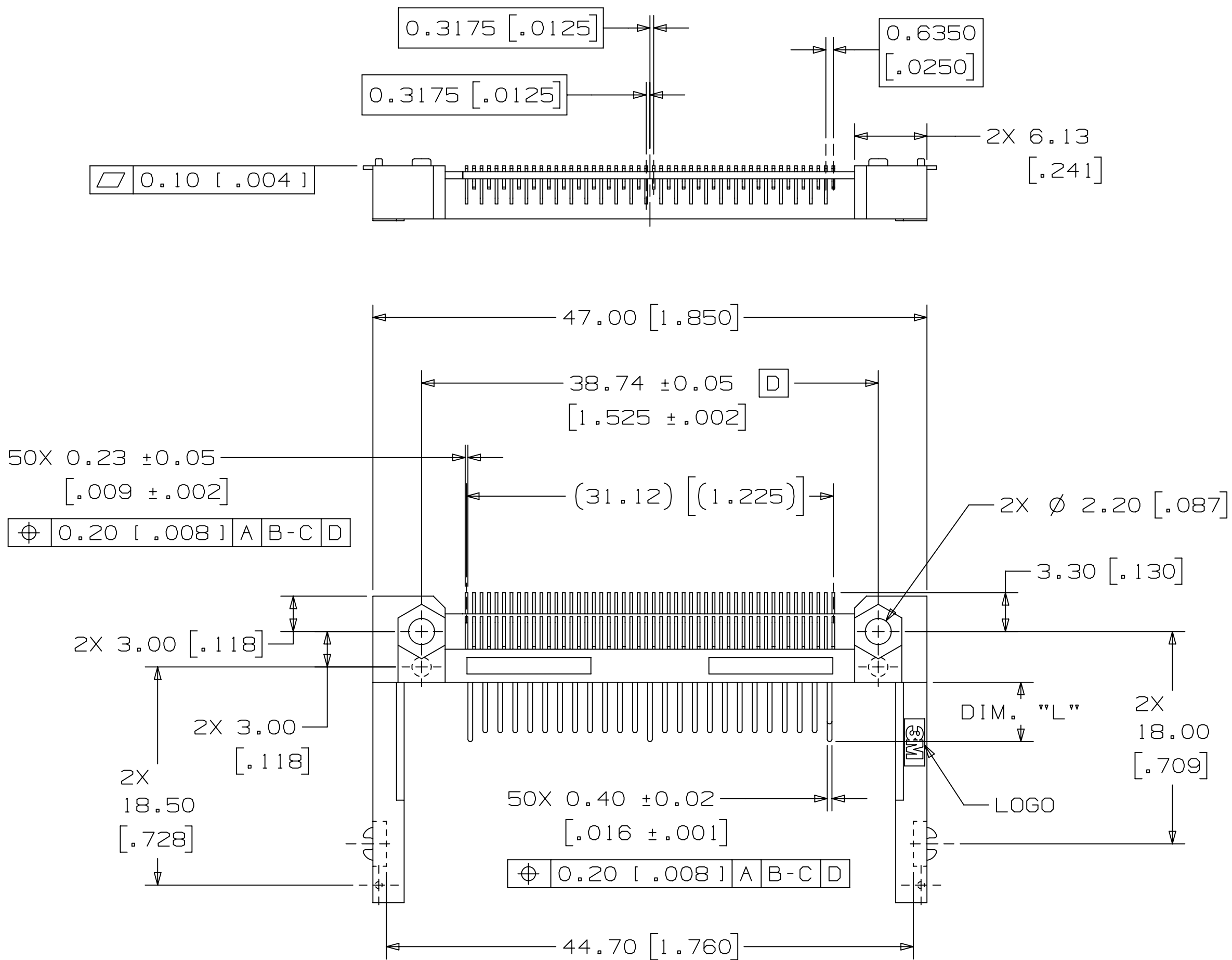
COMPACTFLASH IS A REGISTERED TRADEMARK OF Sandisk Corporation

NOTES

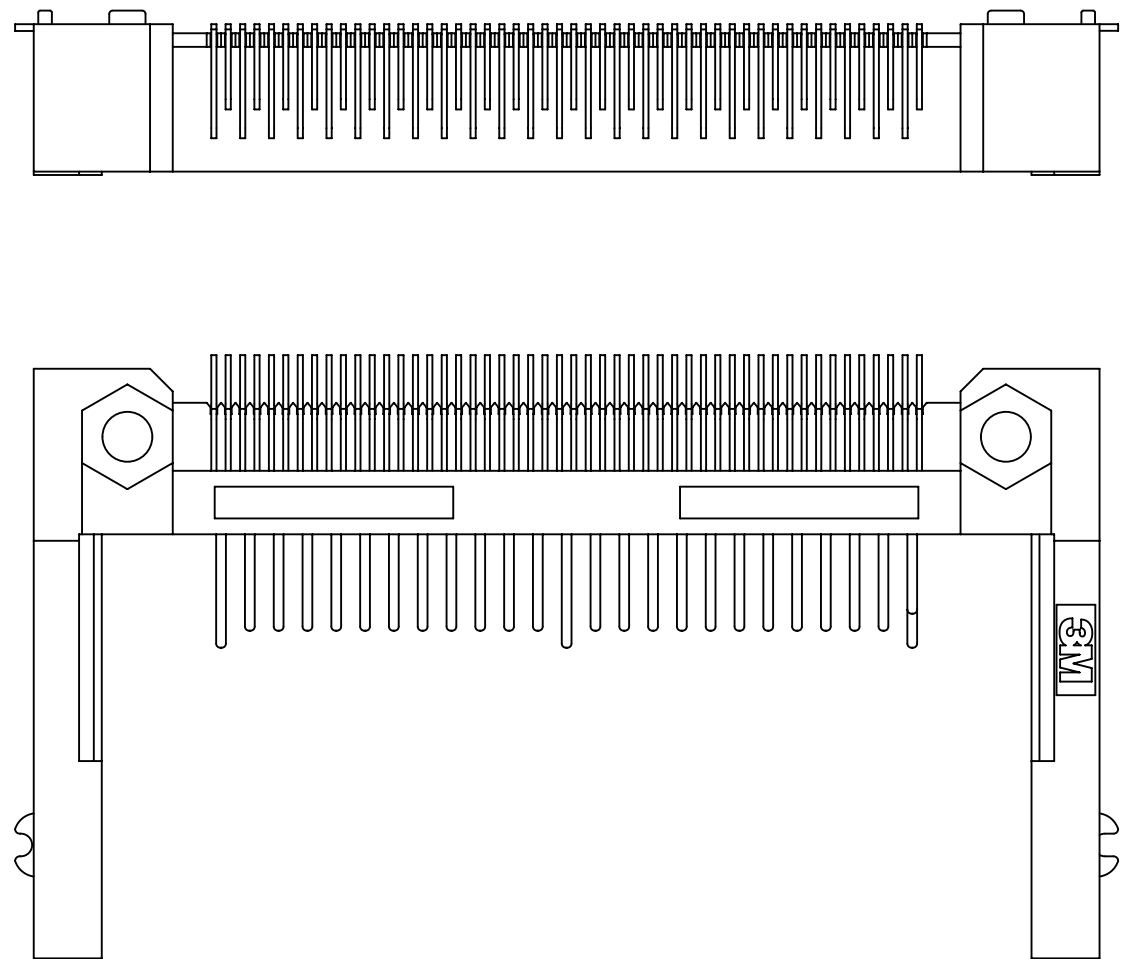
1. REGULATORY INFORMATION:
VISIT 3M.com/regs
2. UNLESS OTHERWISE NOTED,
REFERENCES TO INDUSTRY
SPECIFICATIONS ARE INTENDED
TO INDICATE SUBSTANTIAL
COMPLIANCE TO THE MATERIAL
ELEMENTS OF THE SPECIFICATION.
SUCH REFERENCES SHOULD NOT BE
CONSTRUED AS A GUARANTEE OF
COMPLIANCE TO ALL REQUIREMENTS
IN A GIVEN SPECIFICATION.

D	119747	FEB 13,2025		JNC	FJR
		REVISED & REDRAWN			
C	0016604	NOV 05,2007		MWL	SN
		REMOVE TIN LEAD & ADD GOLD FLASH			
B	0014044	JUL 03,2007		ARM	
		ADD NEW MATERIAL			
A	AT2248	MAR 24,2007			
		MIGRATED FROM DIFFERENT DATABASE			
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT	CASTIGLIONE	DATE	FEB 13,2025	APPRV	DATE
CHKD		DATE		F. RODRIGUEZ	FEB 13,2025
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 3M Center St. Paul, MN 55144 TITLE CF CARD HEADER, COMPACTFLASH, TYPE II, SMT					
CAGE NUMBER	SIZE	DRAWING NO.			REV.
D	7E50	78-5100-2082-5			D
MODEL	7E50	DET.		LISTS ☐ YES ☒ NO	
		SHT		1 OF 4	

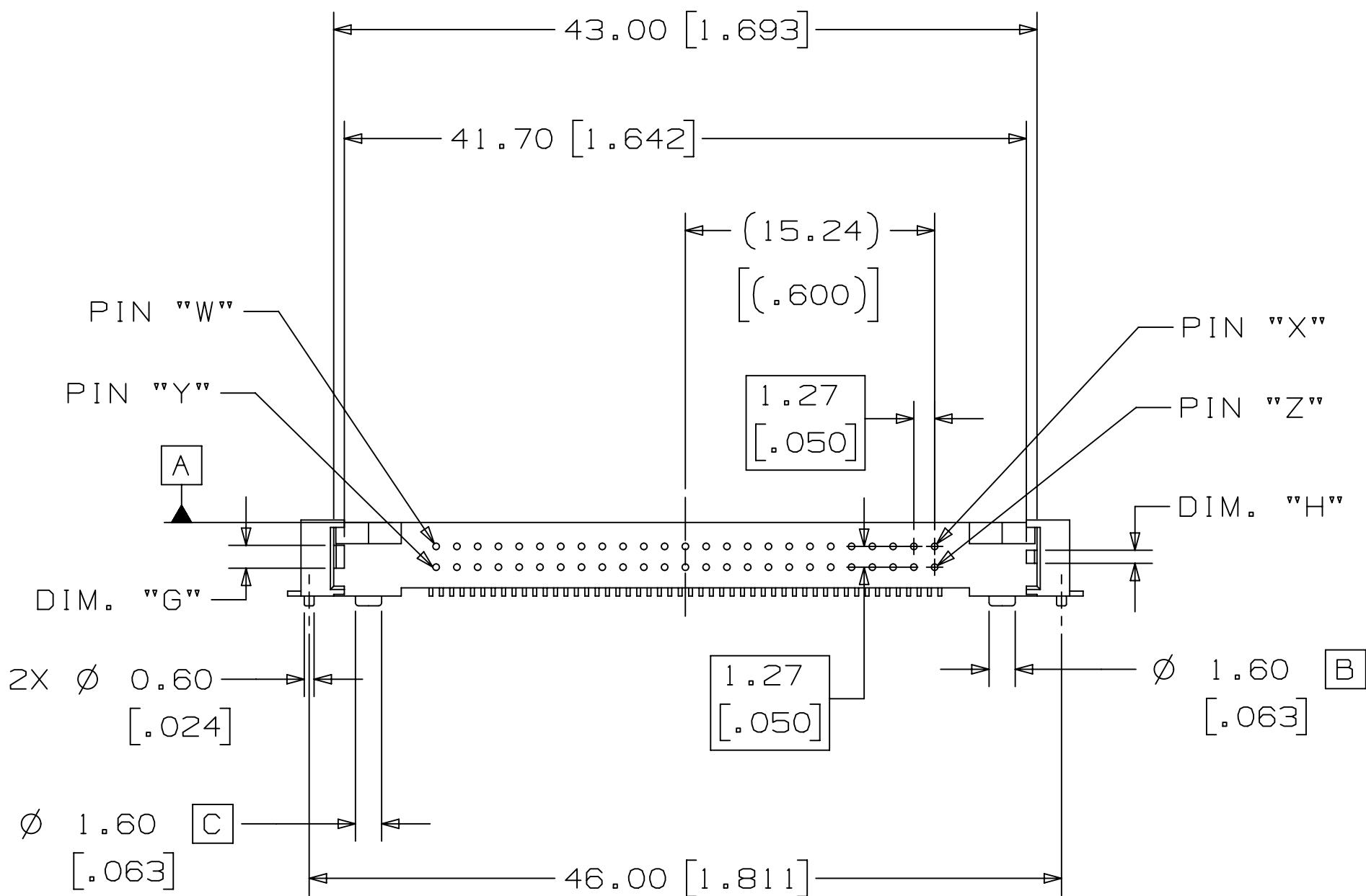
3M™ CF CARD HEADER, 7E50 SERIES
COMPACTFLASH™ TYPE II, SURFACE MOUNT



HEADER WITHOUT
STANDOFF



HEADER WITH
STANDOFF



PIN FUNCTION	DIM. "L" PIN LENGTH	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

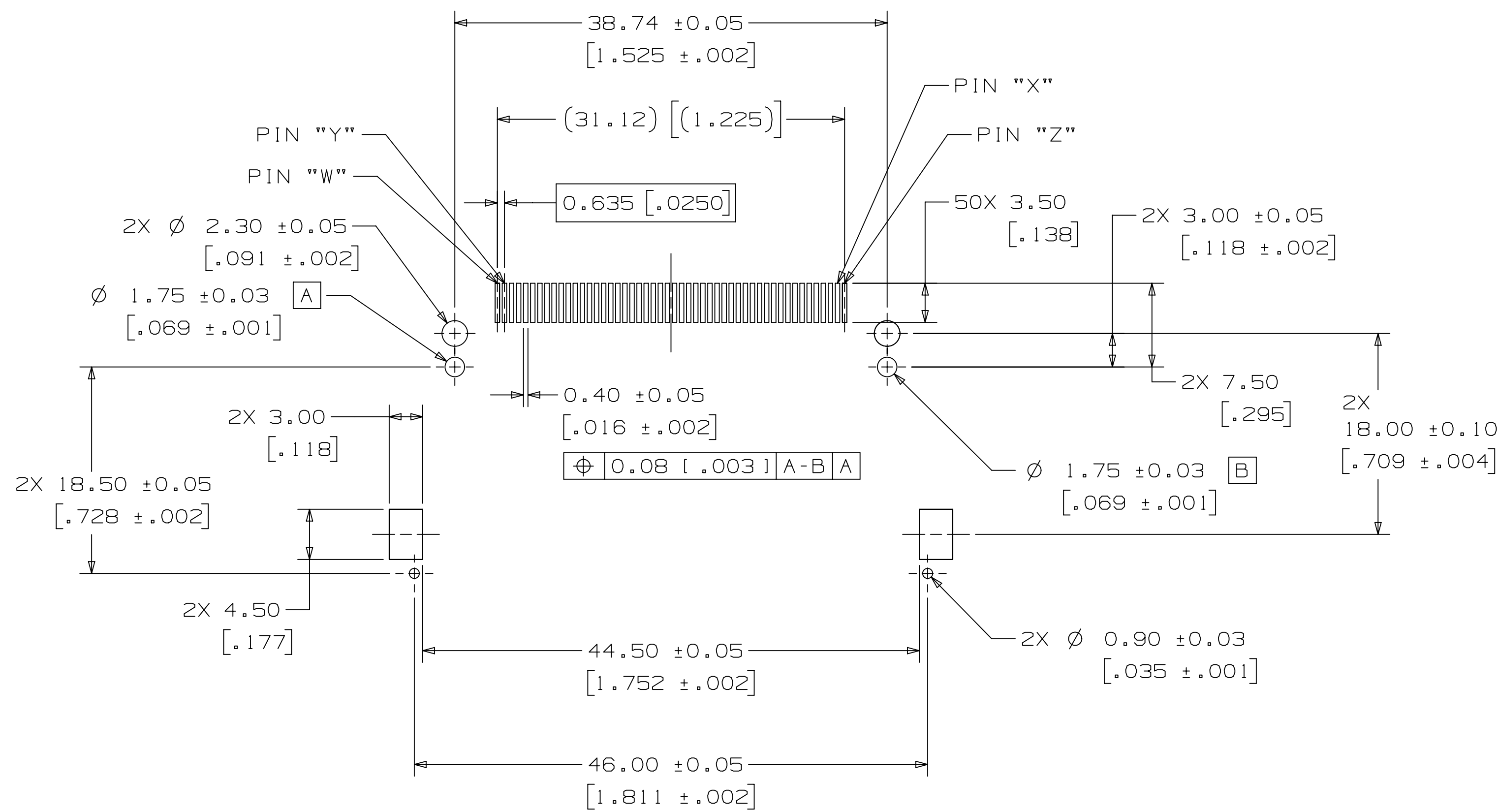
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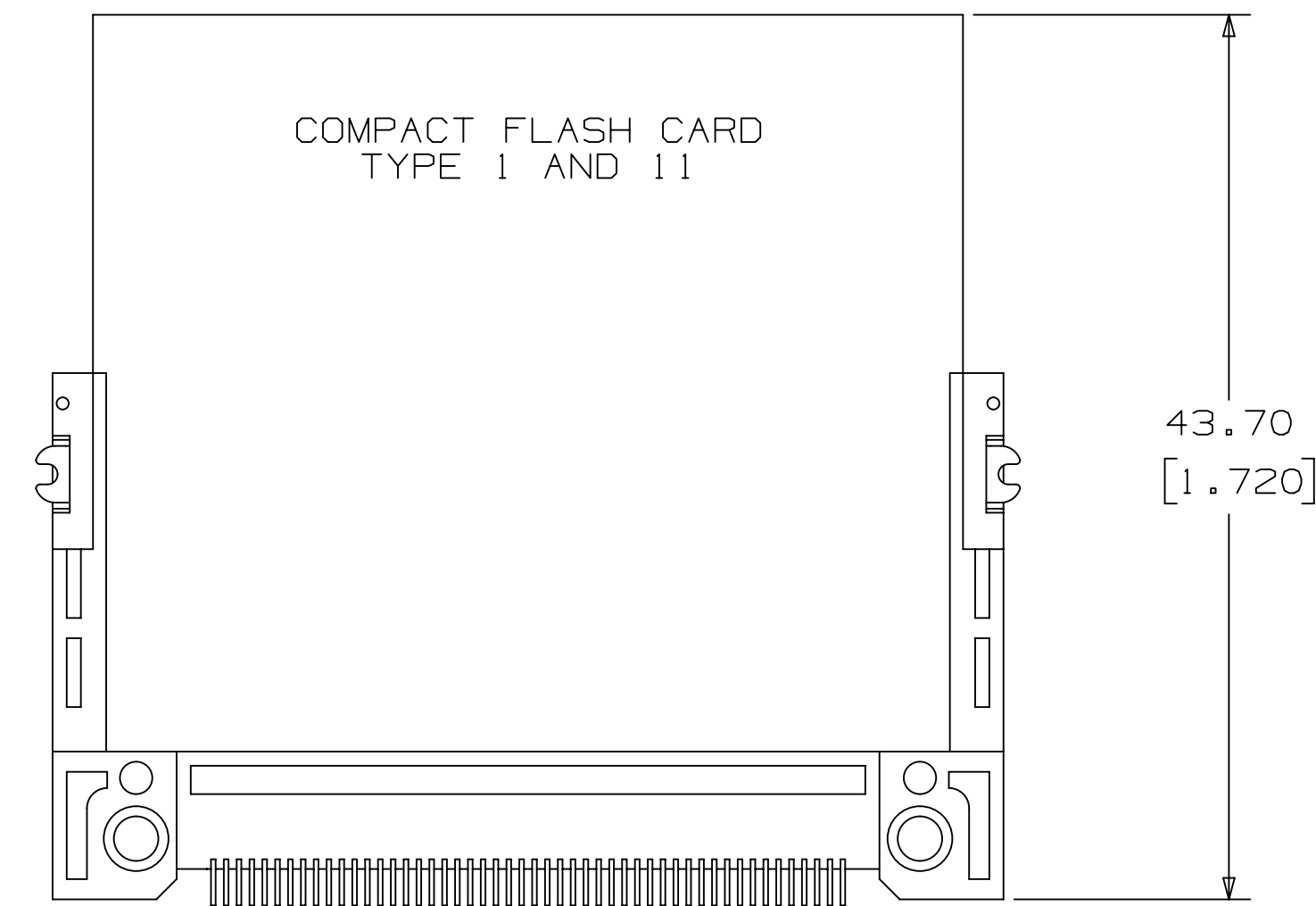
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES		DIVISION CODE DEPP		DRFT	CASTIGLIONE	DATE	FEB 13, 2025	MFR	DATE
DIVISION		DO NOT SCALE DRAWING		CHKD		DATE	FEB 13, 2025	APPRV	DATE
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		3M		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2025 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.	
MAX. SURFACE ROUGHNESS		INTERPRET PER ASME Y14.5 - 2018		TITLE		CF CARD HEADER, COMPACTFLASH, TYPE II, SMT		CAGE NUMBER	
MARKED ONLY		INCHES		MILLIMETERS		DRAWING NO.		REV.	
		.00 ±.00 .000 ±.000 .0000 ±.0000		.0 ±.0 .00 ±.03 .00 ±.015 .000 ±.0005		D 78-5100-2082-5		D	
		ANGLES		MODEL		7E50		DET	
								YES NO	
								SHT 2 OF 4	

3M™ CF CARD HEADER, 7E50 SERIES
COMPACTFLASH™ TYPE II, SURFACE MOUNT

PART NUMBER	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "H"	PIN "W"	PIN "X"	PIN "Y"	PIN "Z"
N7E50-Q516XX-40	NO STANDOFF	4.65 [.183]	1.40 [.055]	0.80 [.031]	PIN 1	PIN 25	PIN 26	PIN 50
N7E50-Q516XX-50	2.00 [.079]	6.65 [.262]	1.40 [.055]	0.80 [.031]	PIN 1	PIN 25	PIN 26	PIN 50
N7E50-R516XX-50	2.00 [.079]	6.65 [.262]	0.80 [.031]	1.40 [.055]	PIN 50	PIN 26	PIN 25	PIN 1



PC BOARD LAYOUT



CARD INSERTION

D	119747	FEB 13,2025	JNC	FJR
		REVISED & REDRAWN		
C	0016604	NOV 05,2007	MWL	SN
		REMOVE TIN LEAD & ADD GOLD FLASH		
B	0014044	JUL 03,2007	ARM	
		ADD NEW MATERIAL		
A	AT2248	MAR 24,2007		
		MIGRATED FROM DIFFERENT DATABASE		
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CAS1GLIONE	DATE FEB 13,2025	MFG	DATE
CHKD		DATE	APPR. F. RODRIGUEZ	DATE FEB 13,2025

DESIGN REFERENCE				NEXT ASSEMBLY				REV.		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD			
ACROSS CODES								DEPT		CASTIGLIONE		DAY		FEB 13, 2025		MFG		DATE			
								CHKD				DATE				APPRV. F. RODRIGUEZ		DATE FEB 13, 2025			
DIVISION				DIVISION CODE				DEPP		3M St. Paul, MN 55144		© 3M COPYRIGHT 2025 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.									
DO NOT SCALE DRAWING				SCALE				TOLERANCES EXCEPT AS NOTED													
				THIRD ANGLE PROJECTION				INCHES		TITLE		CF CARD HEADER, COMPACTFLASH, TYPE I I , SMT									
				.0 ± .00 ± .000 ± .0000 ±				MILLIMETERS 0 ± ± 0.3 ± 0.15 ± 0.005		CAGE NUMBER										SIZE	
MAX SURFACE ROUGHNESS				☒ ALL SURFACES				☐ MARKED ONLY				MODEL		7E50		DET.		LISTS OYES XNO		SHT 3 OF 4	
				ANGLES ±																	

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COMPACTFLASH™ TYPE II, SURFACE MOUNT

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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECD	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS CODES				DRFT	CASTIGLIONE	DATE	FEB 13, 2025	WFO	DATE
				CHKD		DATE		WFO	DATE
								F. RODRIGUEZ	FEB 13, 2025
DIVISION		DIVISION CODE		 3M Center 36, Pauli, MN 55144			© 3M COPYRIGHT 2025 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
DO NOT SCALE DRAWING		SCALE							
TOLERANCES EXCEPT AS NOTED		INCHES		TITLE		CF CARD HEADER, COMPACTFLASH, TYPE II, SMT			
THIRD ANGLE PROJECTION		MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2018		.00 + .009 .0000 +		.00 ± .00 +0.3 .00 ±0.15 .00 ±0.005		CAGE NUMBER		SIZE	
MAX SURFACE ROUGHNESS		☒ ALL SURFACES ☐ MARKED ONLY		MODEL 7E50		DRAWING NO. 78-5100-2082-5		REV. D	
		ANGLES ±		DET LISTS YES ☒ NO		SHT 4 OF 4			

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