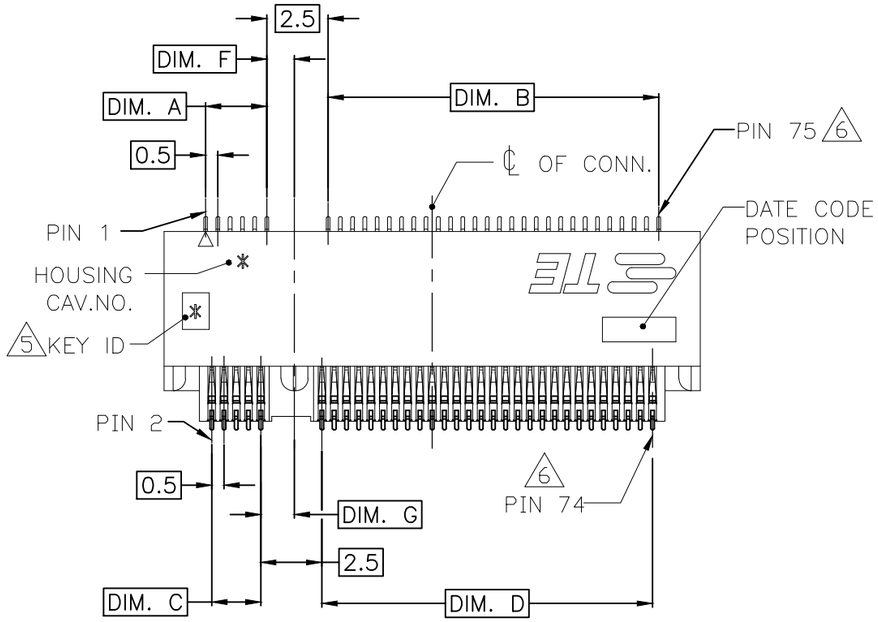
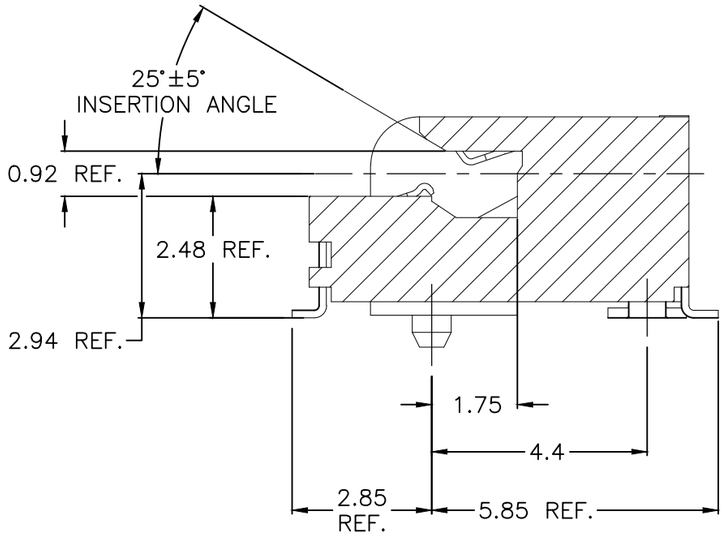
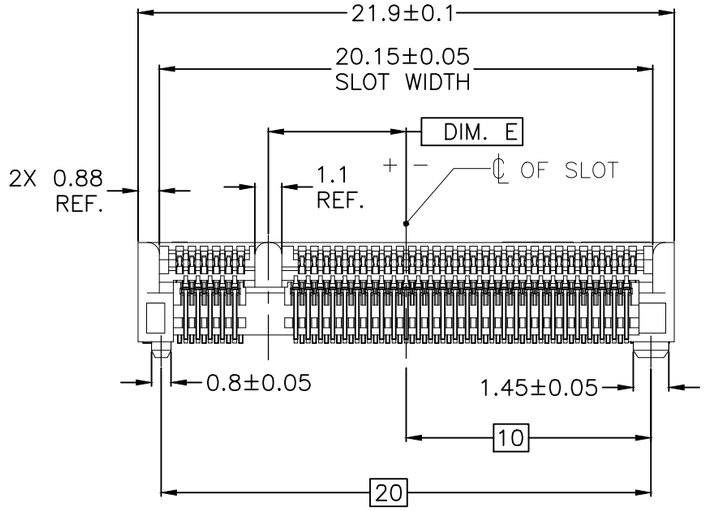
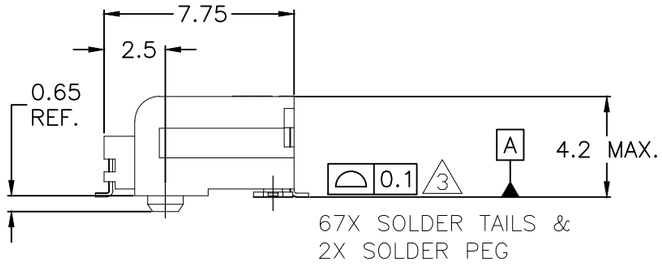
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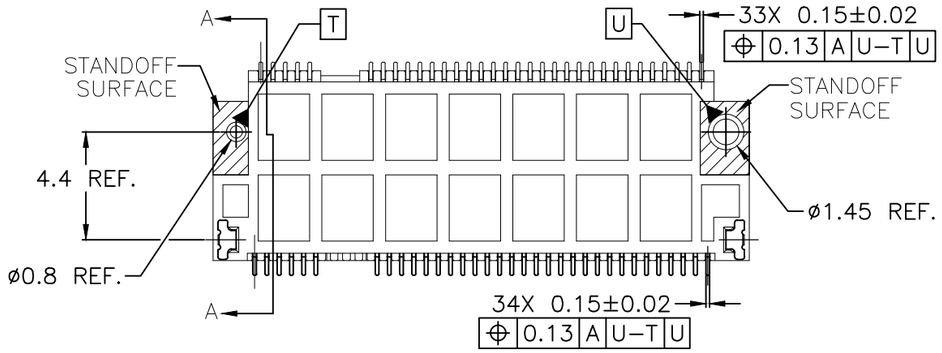
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B3	REVISED PER ECR-19-000415	27SEP2019	E.Z	W.H











NOTES:

1. MATERIAL:
1.1 HOUSING : HIGH TEMPERATURE THERMOPLASTIC UL94V-0, COLOR: BLACK.
1.2 CONTACT: COPPER ALLOY.
1.3 SOLDER PEG: STAINLESS STEEL.

2. FINISH:
2.1 CONTACT: UNDERCOAT NICKEL 50u'' min.
ALL OVER;
MATING AREA: GOLD PLATING, THE THICKNESS SEE TABLE LIST;
SOLDERABLE AREA: GOLDFLASH.

2.2 SOLDER PEG: UNDERCOAT: NICKEL 50u'' min.
ALL OVER
SOLDERABLE AREA: MATTE TIN 100u'' min.

3. COPLANARITY: 0.10mm MAX.(BEFORE SOLDERING).

4. ACCEPTED MODULE BASED ON INDUSTRY STD

5. KEY ID, "*" IS A CAPTICAL LETTER PER THE PART NO.

6. THE PIN NO. DEFINITIONS ARE ACCORDING TO PCB FOOTPRINT, THE ACTUAL PIN QUANTITY IS ONLY 67 POS. FOR KEY TAKING OUT 8 POS.

7. THE PRODUCT IS RoHS COMPLIANT,
BR 900PPM MAX., CL 900PPM MAX.
BR+CL 1500 PPM MAX.

8. MINUS MEANS ℄ OF KEY IS ON THE RIGHT SIDE OF CONN. ℄ IN PAGE 1.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± 0.30
1 PLC ± 0.30
2 PLC ± 0.20
3 PLC ± 0.10
4 PLC ± -
ANGLES ± 3°

MATERIAL -

FINISH -

DWN	SIMON WU	9OCT2012
CHK	SIMON LI	9OCT2012
APVD	COREL WANG	9OCT2012
PRODUCT SPEC	SEE TABLE	
APPLICATION SPEC	114-115006	
WEIGHT	0.64 G	

TE Connectivity Ltd.

NAME: M.2(NGFF) MINI CARD MOUNTING TYPE 0.50mm PITCH 67 POS. 4.2mm HEIGHT FOR DOUBLE SIDED MODULE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199230	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 4 | REV B3

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	—	—

8

M	108–115042	50u'' MIN.	1.125	1.375	–6.125	1.5	14.0	2.0	14.0	1–2199230–7
		30u'' MIN.								1–2199230–6
		15u'' MIN.								1–2199230–5
		10u'' MIN.								1–2199230–4
	108–115049	GOLD FLASH								1–2199230–3
A	108–115042	10u'' MIN.	1.375	1.125	6.625	14.5	1.0	14.5	1.5	1–2199230–2
E					2.625	10.5	5.0	10.5	5.5	1–2199230–1
B					5.625	13.5	2.0	13.5	2.5	1–2199230–0
A	108–115042	30u'' MIN.			6.625	14.5	1.0	14.5	1.5	2199230–9
		15u'' MIN.								2199230–8
	108–115049	GOLD FLASH								2199230–7
E	108–115042	30u'' MIN.			2.625	10.5	5.0	10.5	5.5	2199230–6
B					5.625	13.5	2.0	13.5	2.5	2199230–5
E		15u'' MIN.			2.625	10.5	5.0	10.5	5.5	2199230–4
B					5.625	13.5	2.0	13.5	2.5	2199230–3
E	108–115049	GOLD FLASH			2.625	10.5	5.0	10.5	5.5	2199230–2
B					5.625	13.5	2.0	13.5	2.5	2199230–1
KEY ID.	PRODUCT SPEC.	GOLD SPEC.	DIM. G	DIM. F	DIM. E	DIM. D	DIM. C	DIM. B	DIM. A	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± 0.30
1 PLC ± 0.30
2 PLC ± 0.20
3 PLC ± 0.10
4 PLC ± –
ANGLES ± 3°

MATERIAL –

FINISH –

DWN SIMON WU 9OCT2012
CHK SIMON LI 9OCT2012
APVD COREL WANG 9OCT2012
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

CUSTOMER DRAWING

TE Connectivity Ltd.

NAME
M.2(NGFF) MINI CARD MOUNTING TYPE
0.50mm PITCH 67 POS. 4.2mm HEIGHT
FOR DOUBLE SIDED MODULE

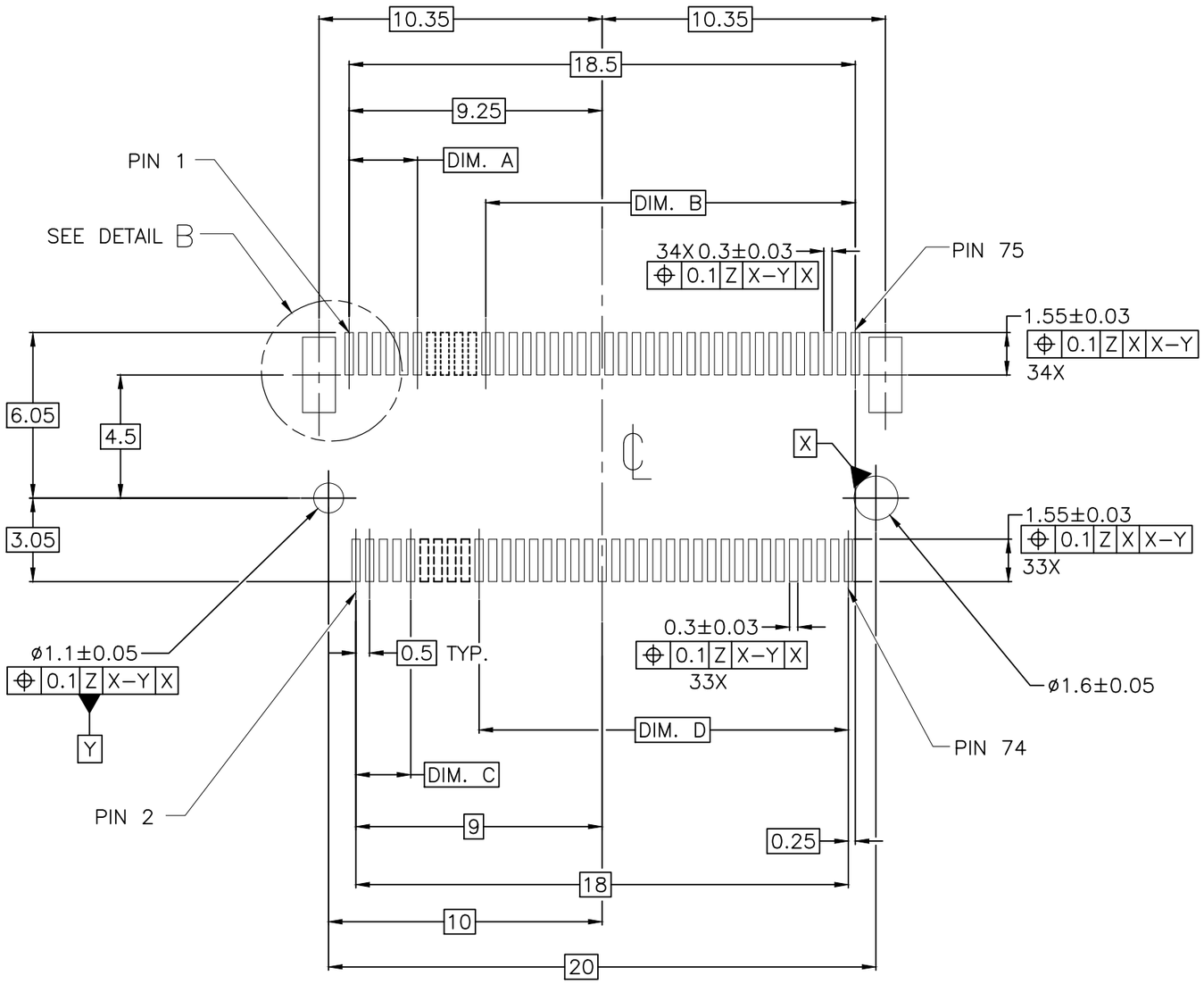
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199230	—

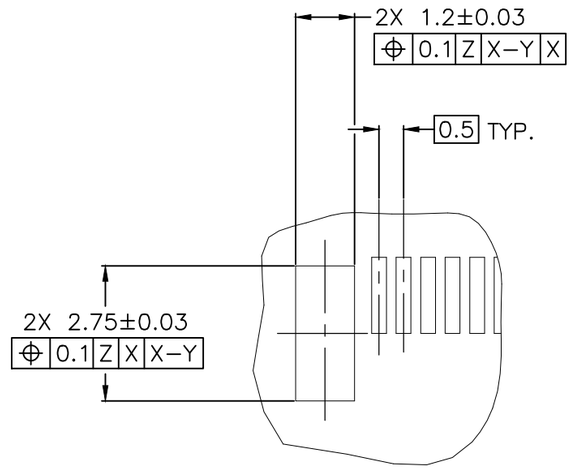
SCALE	SHEET	REV
4:1	2 OF 4	B3

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	—	—





DETAIL B
SCALE 8:1

RECOMMEDNED NGFF MINI CARD MOUNTING TYPE_SMT_PCB OUTLINE
DATUM Z: PCB SOLDER SURFACE

M	1.5	14.0	2.0	14.0
E	10.5	5.0	10.5	5.5
B	13.5	2.0	13.5	2.5
A	14.5	1.0	14.5	1.5
KEY ID.	DIM. D	DIM. C	DIM. B	DIM. A

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± 0.30
1 PLC ± 0.30
2 PLC ± 0.20
3 PLC ± 0.10
4 PLC ± –
ANGLES ± 3°

MATERIAL –
FINISH –

DWN SIMON WU 9OCT2012
CHK SIMON LI 9OCT2012
APVD COREL WANG 9OCT2012
PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT –

CUSTOMER DRAWING

TE Connectivity Ltd.

NAME
M.2(NGFF) MINI CARD MOUNTING TYPE
0.50mm PITCH 67 POS. 4.2mm HEIGHT
FOR DOUBLE SIDED MODULE

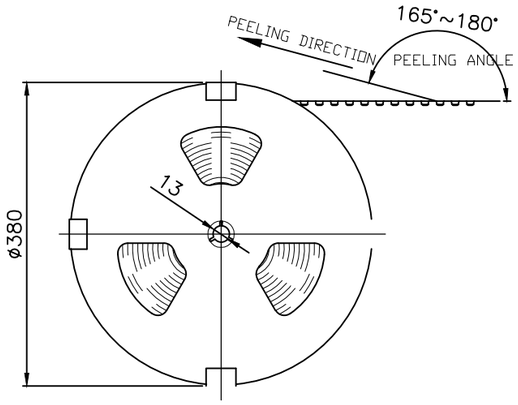
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199230	—

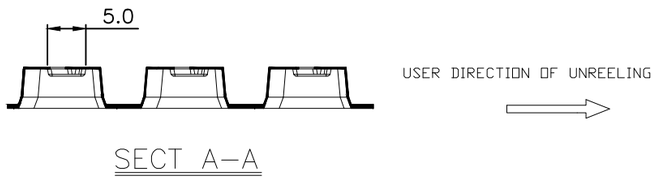
SCALE	SHEET	REV
5:1	3 OF 4	B3

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	—	—

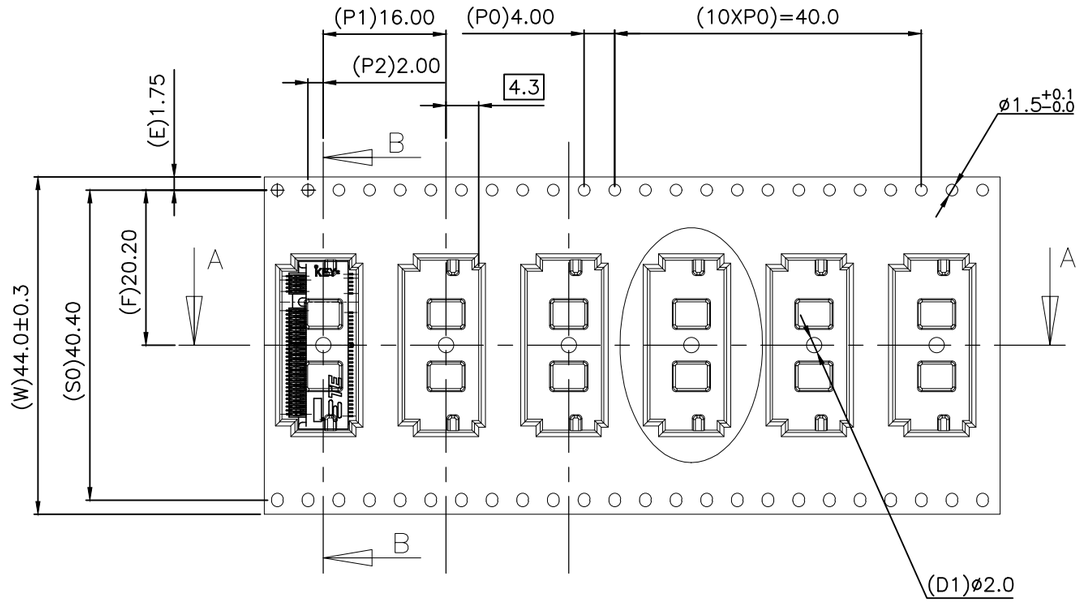


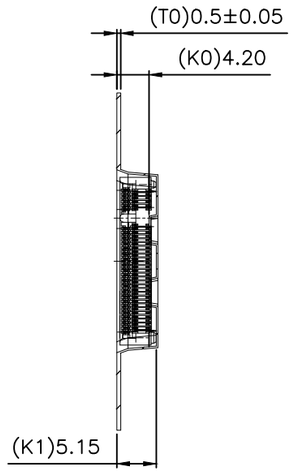


SECT A–A

NOTES: (APPLIED TO CURRENT SHEET)

1. THE DIRECTION OF EACH CONNECTOR ON A EMBOSS IS REFERRED TO THIS DRAWING.
2. GENERAL TOLERANCE: ±0.5, ±3°
3. PACKAGED IN EMBOSS TAPE AND PLASTIC RELL 1000PCS PER REEL.





SECT B–B

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SIMON WU 9OCT2012	TE Connectivity Ltd.
		CHK SIMON LI 9OCT2012	
		APVD COREL WANG 9OCT2012	NAME M.2(NGFF) MINI CARD MOUNTING TYPE 0.50mm PITCH 67 POS. 4.2mm HEIGHT FOR DOUBLE SIDED MODULE
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 0.30; 1 PLC ± 0.30; 2 PLC ± 0.20; 3 PLC ± 0.10; 4 PLC ± –; ANGLES ± 3°	PRODUCT SPEC –	
		APPLICATION SPEC –	SIZE A3 / CAGE CODE 00779 / DRAWING NO C-2199230 / RESTRICTED TO –
MATERIAL –	FINISH –	WEIGHT –	
		CUSTOMER DRAWING	SCALE N/A / SHEET 4 OF 4 / REV B3