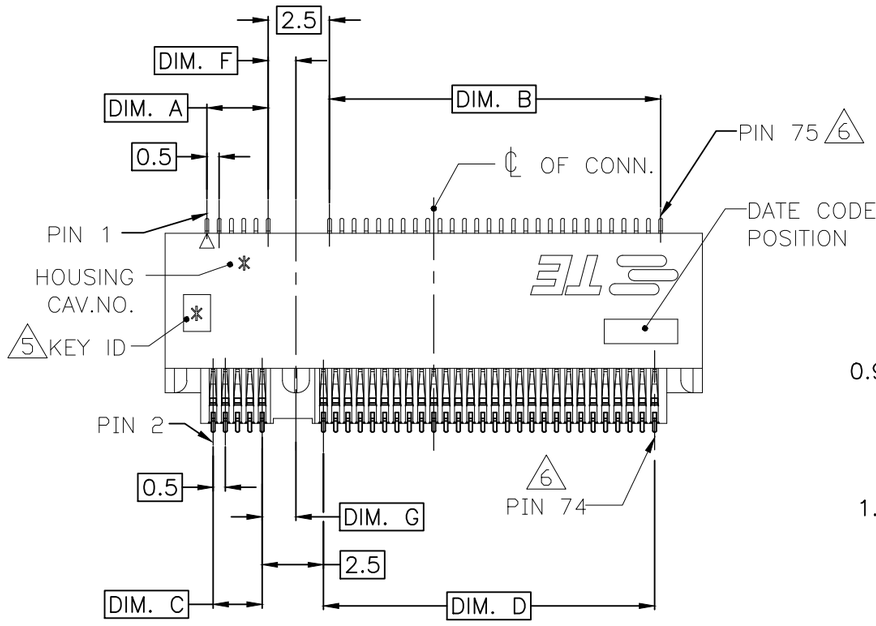
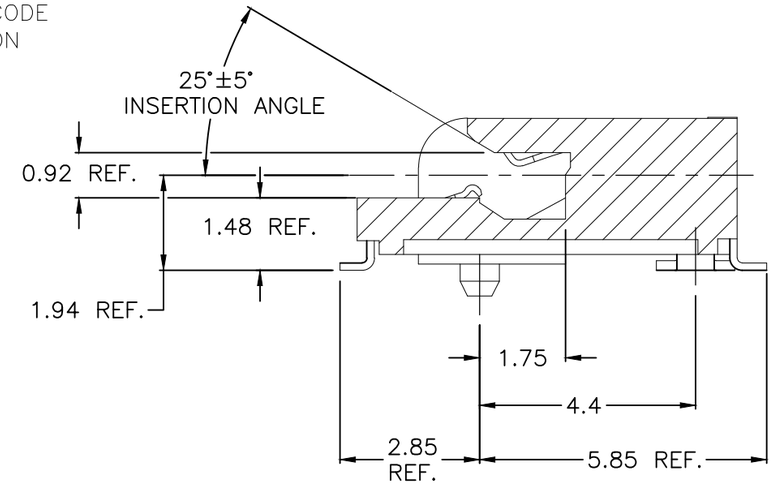
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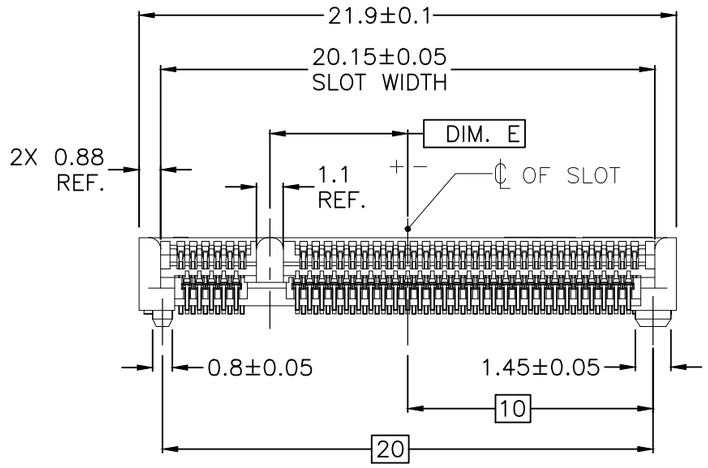
REVISIONS

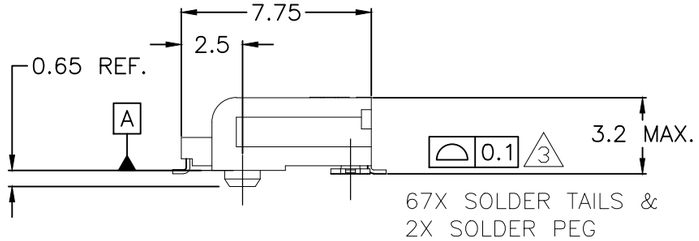
P	LTR	DESCRIPTION	DATE	DWN	APVD
	F	ECR–19–011878	19MAR2020	EZ	WH

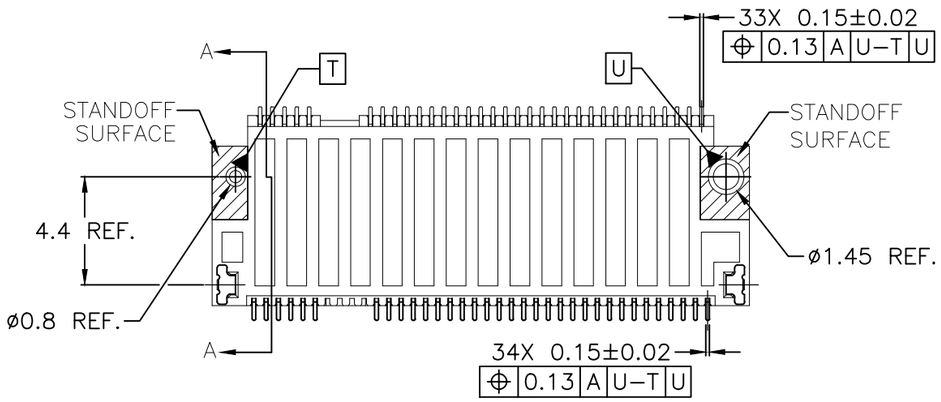




SECTION A–A
SCALE 8:1







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	0.51 G	

TE Connectivity

NAME
M.2(NGFF)MINI CARD MOUNTING TYPE
0.50mm PITCH 67 POS 3.2mm H
DOUBLE SIDED MODULE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C–2199119	–

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 5 | REV F

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REVISIONS

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

8

KEY ID.	PRODUCT SPEC.	GOLD SPEC.	DIM. G	DIM. F	DIM. E	DIM. D	DIM. C	DIM. B	DIM. A	PART NO.
M	108–115042	30u'' MIN.	1.125	1.375	–6.125	1.5	14.0	2.0	14.0	1–2199119–6
		15u'' MIN.								1–2199119–5
		10u'' MIN.								1–2199119–4
	108–115049	GOLD FLASH								1–2199119–3
A	108–115042	10u'' MIN.	1.375	1.125	6.625	14.5	1.0	14.5	1.5	1–2199119–2
E					2.625	10.5	5.0	10.5	5.5	1–2199119–1
B					5.625	13.5	2.0	13.5	2.5	1–2199119–0
A	108–115042	30u'' MIN.			6.625	14.5	1.0	14.5	1.5	2199119–9
		15u'' MIN.								2199119–8
	108–115049	GOLD FLASH								2199119–7
E	108–115042	30u'' MIN.			2.625	10.5	5.0	10.5	5.5	2199119–6
B					5.625	13.5	2.0	13.5	2.5	2199119–5
E		15u'' MIN.			2.625	10.5	5.0	10.5	5.5	2199119–4
B					5.625	13.5	2.0	13.5	2.5	2199119–3
E	108–115049	GOLD FLASH			2.625	10.5	5.0	10.5	5.5	2199119–2
B					5.625	13.5	2.0	13.5	2.5	3–2199119–1
										2199119–1

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 –
APPLICATION SPEC –
WEIGHT 0

TE Connectivity

NAME
M.2(NGFF)MINI CARD MOUNTING TYPE
0.50mm PITCH 67 POS 3.2mm H
DOUBLE SIDED MODULE

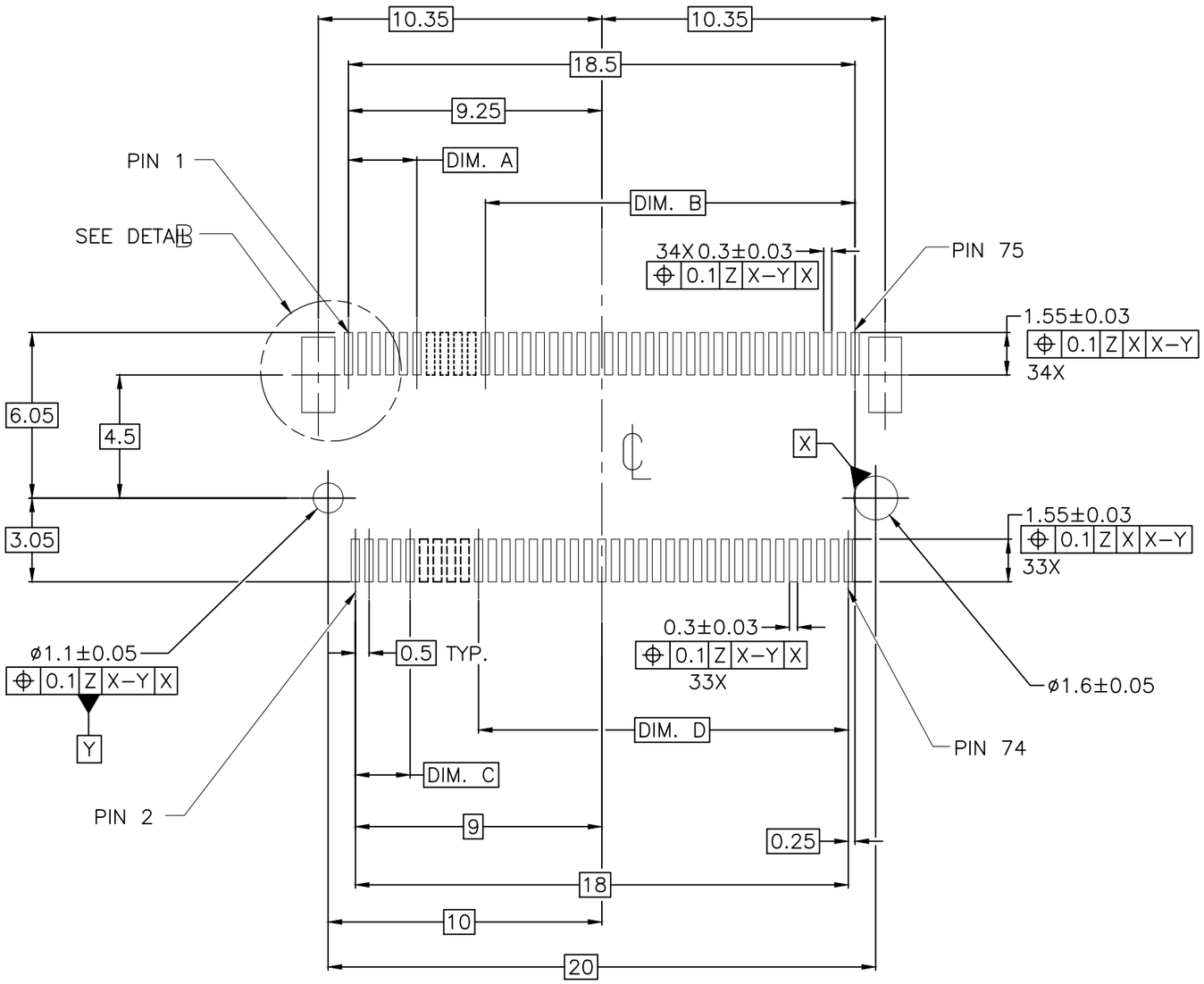
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A3	00779	C-2199119	—

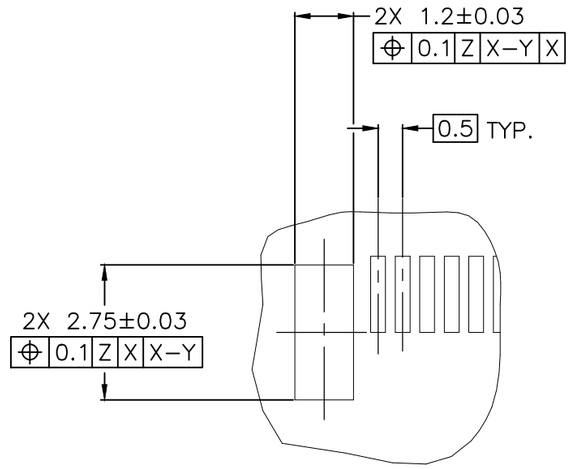
CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 5 | REV F

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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

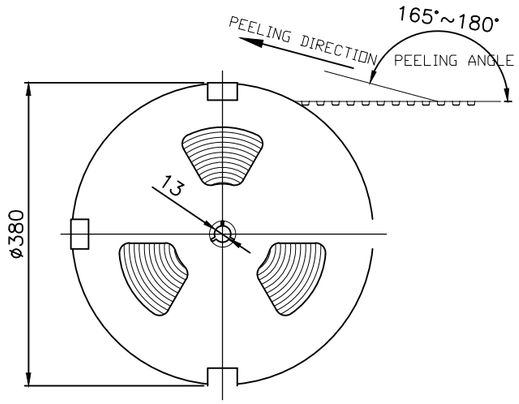
NAME
M.2(NGFF)MINI CARD MOUNTING TYPE
0.50mm PITCH 67 POS 3.2mm H
DOUBLE SIDED MODULE

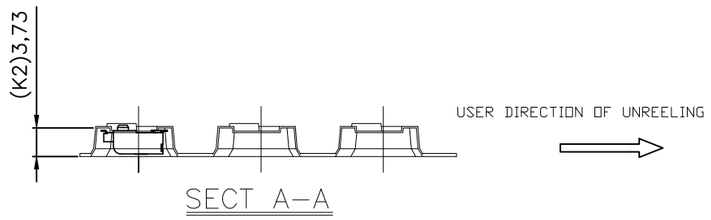
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199119	—

SCALE 5:1 SHEET 3 OF 5 REV F

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

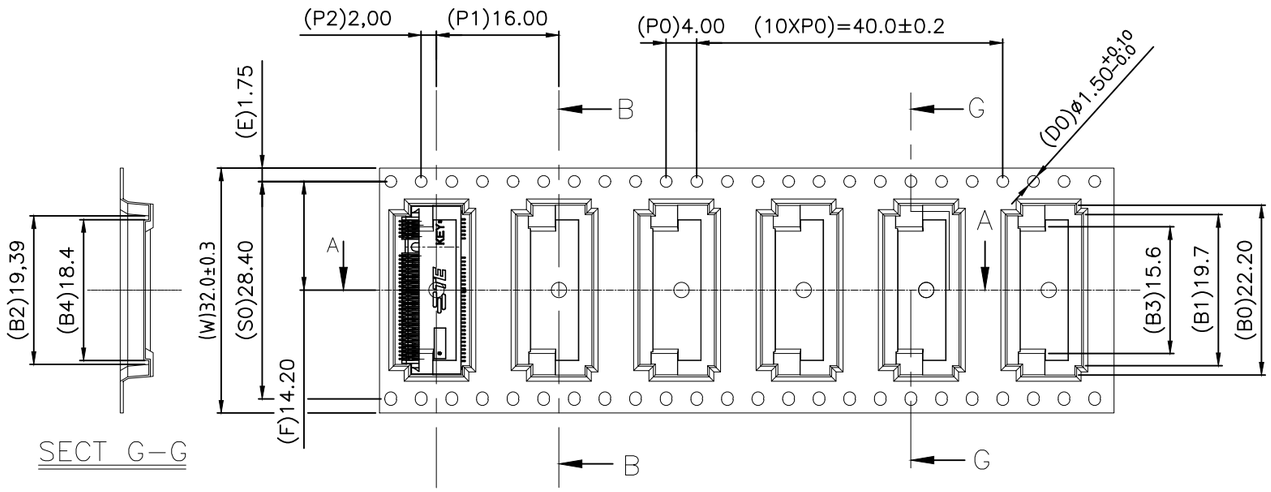




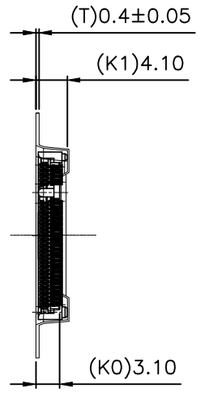
SECT A–A

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 1200PCS PER REEL.



SECT G–G



SECT B–B

USER DIRECTION OF UNREELING

M	1–2199119–6
	1–2199119–5
	1–2199119–4
	1–2199119–3
A	1–2199119–2
E	1–2199119–1
B	1–2199119–0
A	2199119–9
	2199119–8
	2199119–7
E	2199119–6
B	2199119–5
E	2199119–4
B	2199119–3
E	2199119–2
B	2199119–1
KEY ID.	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: –

TE Connectivity

NAME: M.2(NGFF)MINI CARD MOUNTING TYPE 0.50mm PITCH 67 POS 3.2mm H DOUBLE SIDED MODULE

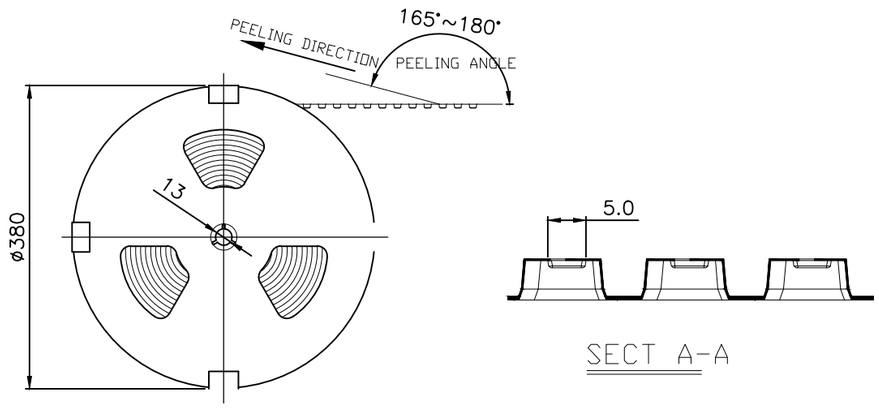
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199119	—

CUSTOMER DRAWING | SCALE N/A | SHEET 4 OF 5 | REV F

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REVISIONS

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

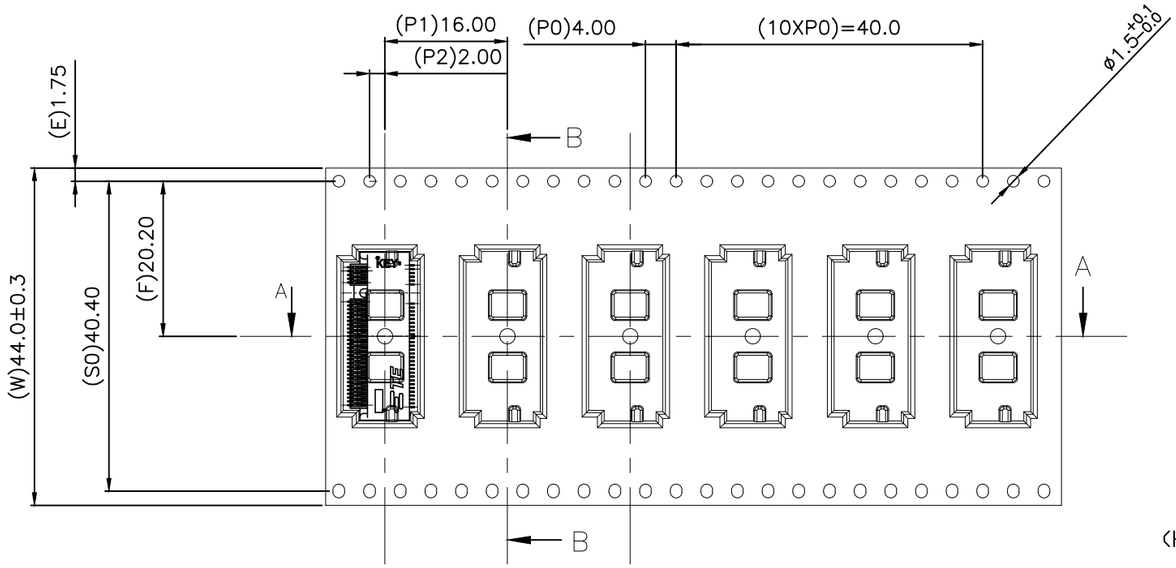


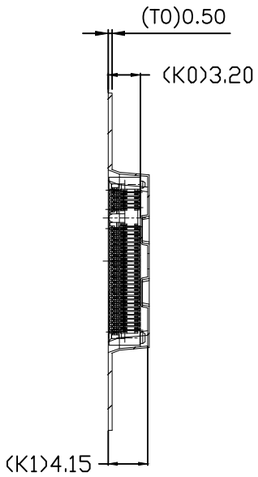
SECT A-A

USER DIRECTION OF UNREELING

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 1200PCS PER REEL.





USER DIRECTION OF UNREELING

SECT B-B
N.I.S

B	3-2199119-1
KEY ID.	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

NAME: M.2(NGFF)MINI CARD MOUNTING TYPE 0.50mm PITCH 67 POS 3.2mm H DOUBLE SIDED MODULE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-2199119	—

SCALE	SHEET	REV
N/A	5 OF 5	F