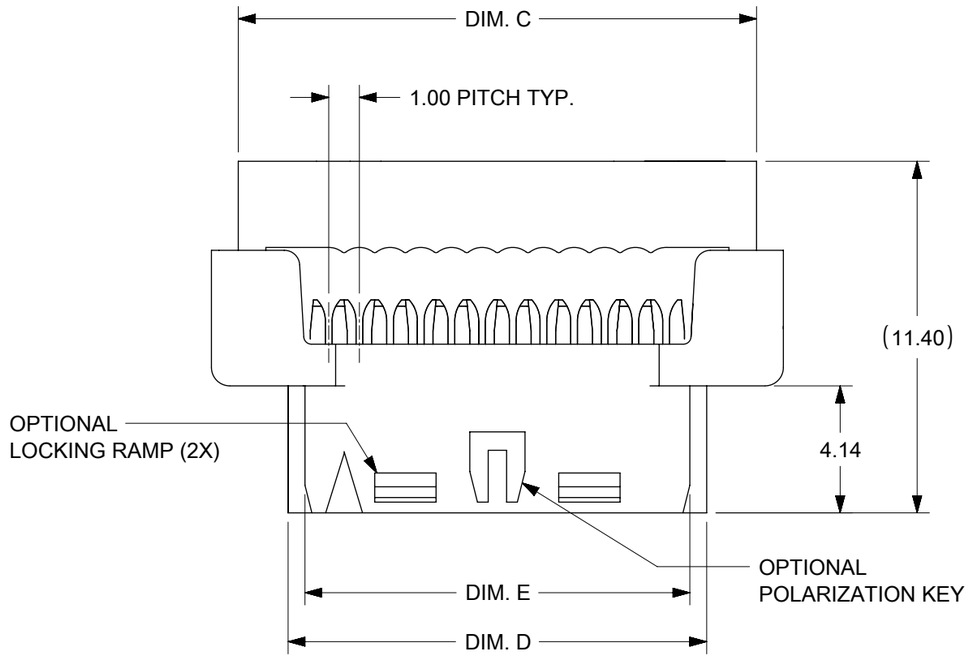
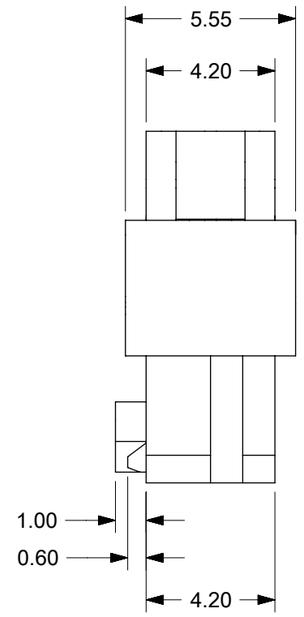
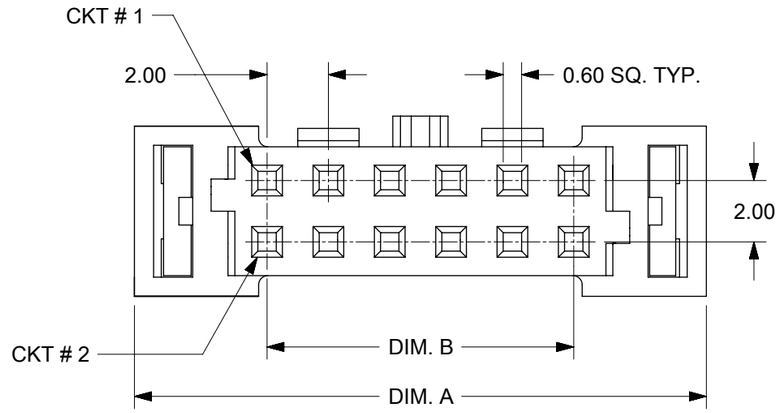
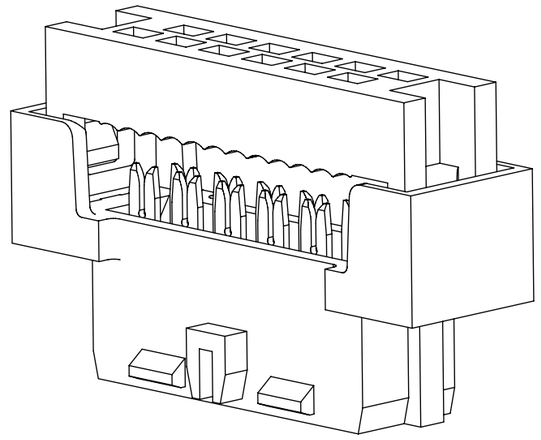








1. MATERIALS:
   HOUSING - PBT. GLASS FILLED UL94V-0 BLACK
   TERMINAL - COPPER ALLOY
2. FINISHES
   PLATING 3 - 15µin (0.38µm) SELECTIVE GOLD IN CONTACT AREA
   AND 75µin (1.88µm) TIN IN IDT AREA OVER 50µin (1.25µm)
   NICKEL OVERALL.
   PLATING 4 - 30µin (0.76µm) SELECTIVE GOLD IN CONTACT AREA
   AND 75µin (1.88µm) TIN IN IDT AREA OVER 50µin (1.25µm)
   NICKEL OVERALL.
   PLATING 5 - 2µin (0.05µm) SELECTIVE GOLD IN CONTACT AREA
   AND 75µin (1.88µm) TIN IN IDT AREA OVER 50µin (1.25µm)
   NICKEL OVERALL.
3. PRODUCT SPEC PS-87568-004 APPLIES.
4. FOR ILLUSTRATION PURPOSES, 12 CKT IS SHOWN.
5. PART MATES WITH ALL MILLIGRID HEADERS WITH MATING LENGTH (H5)
   BETWEEN 2.50mm AND 4.20mm WITH THE RIGHT KEYING OPTION.
6. PART IS DESIGNED FOR 1.00mm PITCH FLAT CABLE, 7 STRANDS,
   AWG #28, UL2651 AND UL2678.
7. ALL OTHER CIRCUIT SIZES, CONTACT FACTORY.
8. STRAIN RELIEF TO BE PURCHASED SEPERATELY.
   REFER TO SD-87569-008.
9. PACKAGING SPECIFICATION :PK-87568-0001.

RELEASE STATUS	P1	RELEASE DATE	2023/05/13 01:47:28

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 749397 2023/05/12
DRWN: SUAIFR 2023/05/12
CHK'D: SUAIFR 2023/05/13
APPR: MRAMAKRISHNA

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.15	±
1 PLACES	±	±
0 PLACES	±	±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: H5

DIMENSION UNITS	SCALE
MM	NTS
DRWN BY	DATE
AGARWAL	1997/08/05
CHK'D BY	DATE
SQUEK	1997/09/03
APPR BY	DATE
MLONG	2009/11/13
DRAWING SIZE	THIRD ANGLE PROJECTION
A3	

molex®

MGRID
2MM DUAL ROW IDT RECEPTACLE

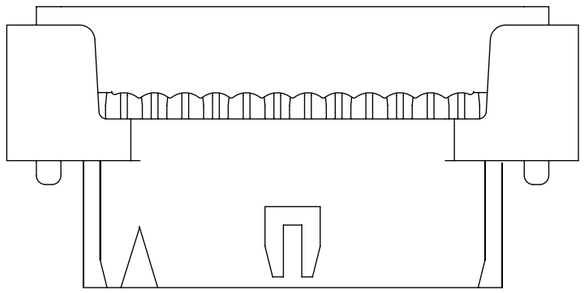
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
87568	SEE TABLE	GENERAL MARKET

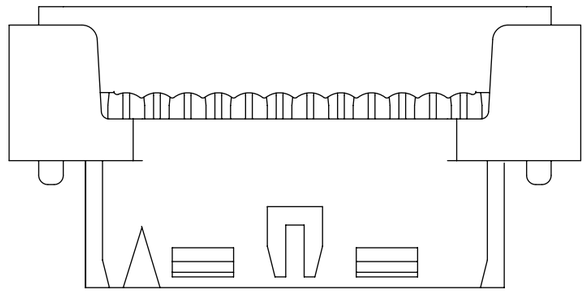
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-87568-003	PSD	001	1 OF 3

FORMAT: Mel-lega-master-tb-prod-A3
REVISION: C
DATE: 2017/02/06

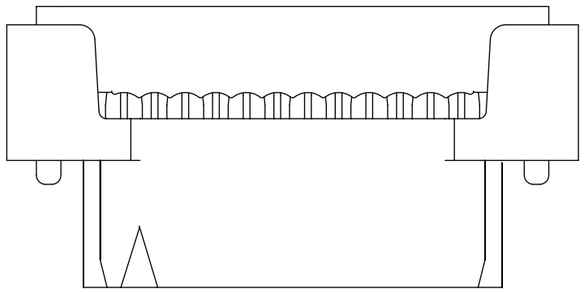
ENGINEERING NUMBER	CKT. SIZE	A	B	C	D	E
87568-10**	10	16.65	8.00	14.90	11.65	10.55
87568-12**	12	18.65	10.00	16.90	13.65	12.55
87568-14**	14	20.65	12.00	18.90	15.65	14.55
87568-16**	16	22.65	14.00	20.90	17.65	16.55
87568-20**	20	26.65	18.00	24.90	21.65	20.55
87568-22**	22	28.65	20.00	26.90	23.65	22.55
87568-24**	24	30.65	22.00	28.90	25.65	24.55
87568-26**	26	32.65	24.00	30.90	27.65	26.55
87568-30**	30	36.65	28.00	34.90	31.65	30.55
87568-32**	32	38.65	30.00	36.90	33.65	32.55
87568-34**	34	40.65	32.00	38.90	35.65	34.55
87568-36**	36	42.65	34.00	40.90	37.65	36.55
87568-40**	40	46.65	38.00	44.90	41.65	40.55
87568-44**	44	50.65	42.00	48.90	45.65	44.55
87568-50**	50	56.65	48.00	54.90	51.65	50.55



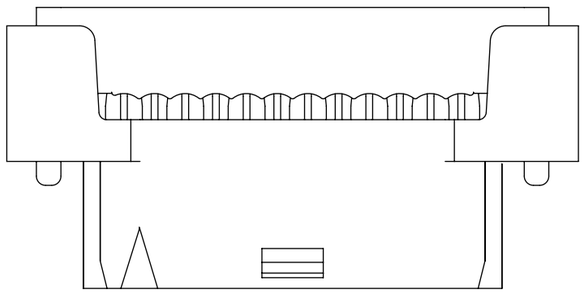
87568-**4*
POLARIZATION ONLY
(APPLICABLE FOR 14 TO 50CKT)



87568-**9*
POLARIZATION AND RAMP LOCKING
(APPLICABLE FOR 14 TO 50 CKT)



87568-**6*
NO POLARIZATION/RAMP FEATURE
(APPLICABLE FOR 10 TO 50 CKT)



87568-**7*
SINGLE RAMP LOCKING ONLY
(APPLICABLE FOR 10 TO 12 CKT)

87568 - * * * *

- CKT. SIZE
- PLATING OPTION (SEE SHEET 3)
- POLARIZATION KEY & LOCKING RAMP OPTION

4 - WITH POLARIZATION ONLY FOR 14-50 CKT
6 - WITHOUT POLARIZATION AND RAMP LOCKING
7 - WITH SINGLE RAMP LOCKING ONLY FOR 10 & 12 CKT
9 - WITH POLARIZATION AND RAMP LOCKING 14 - 50 CKT
10-12 CIRCUIT SIZE HAS ONLY ONE RAMP FOR LOCKING (OPTIONAL)
14-50 CIRCUIT SIZE HAS BOTH POLARIZATION AND RAMP LOCKING (OPTIONAL)

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EC NO: 749397 2023/05/12
DRWN: SUJAIFR 2023/05/12
CHK'D: SUJAIFR 2023/05/13
APPR: MRAMAKRISHNA

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.15	±
1 PLACES	±	±
0 PLACES	±	±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: H5

DIMENSION UNITS: MM
SCALE: NTS
DRWN BY: AGARWAL DATE: 1997/08/05
CHK'D BY: SQUEK DATE: 1997/09/03
APPR BY: MLONG DATE: 2009/11/13
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

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MGRID
2MM DUAL ROW IDT RECEPTACLE

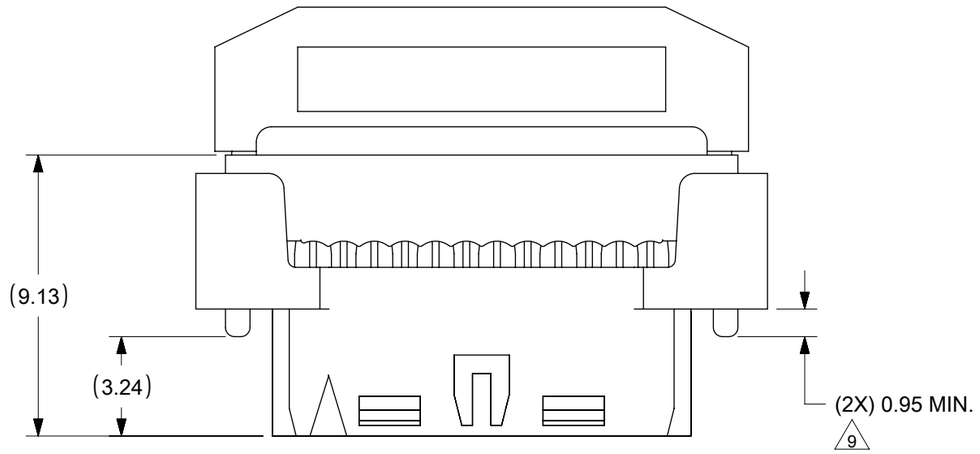
PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
87568	SEE TABLE	GENERAL MARKET

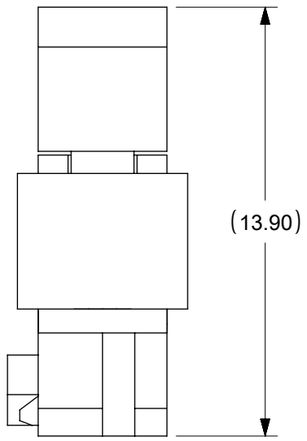
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-87568-003	PSD	001	2 OF 3

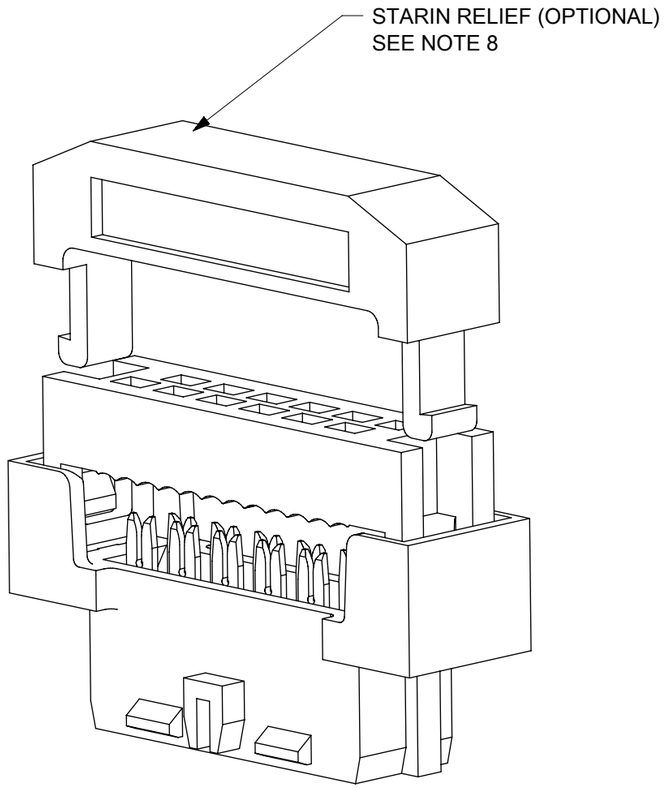
RELEASE STATUS	P1	RELEASE DATE	2023/05/13 01:47:28

FORMAT: Met-lega-master-lib-prod-A3
REVISION: C
DATE: 2017/02/06



CABLE LOADED ASSEMBLY
WITH STRAIN RELIEF





3D VIEW
(12 CKT SHOWN
FOR ILLUSTRATION ONLY)

NOTES

1. THIS DIMENSION IS TO ENSURE GOOD CABLE TERMINATION.

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EC NO: 749397 2023/05/12
DRWN: SUAIFR 2023/05/12
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APPR: MRAMAKRISHNA 2023/05/13

GENERAL TOLERANCES (UNLESS SPECIFIED)	MM	INCH
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2 PLACES	± 0.15	±
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0 PLACES	±	±
ANGULAR TOL ± 3.0		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

H5 REV

DIMENSION UNITS	MM
SCALE	NTS
DRWN BY	AGARWAL
DATE	1997/08/05
CHK'D BY	SQUEK
DATE	1997/09/03
APPR BY	MLONG
DATE	2009/11/13
DRAWING SIZE	A3
THIRD ANGLE PROJECTION	

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MGRID
2MM DUAL ROW IDT RECEPTACLE

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
87568	SEE TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-87568-003	PSD	001	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	2023/05/13 01:47:28

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REVISION: C
DATE: 2017/02/06