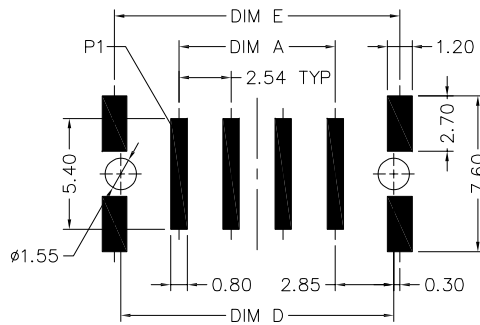


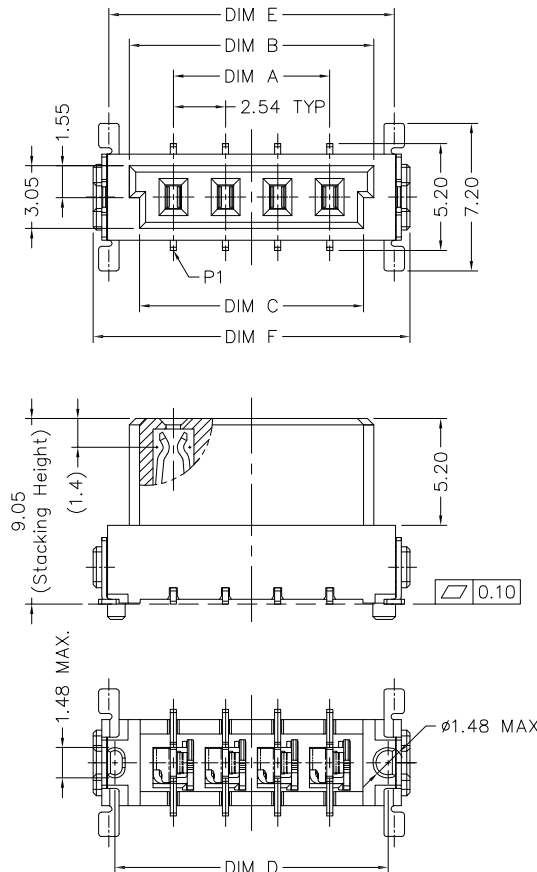
APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	12/16/25	
A		UPDATE DRAWING	1/12/26	LH/RC
B		UPDATE SPEC.	1/21/26	WY/RC



RECOMMENDED P.C.B LAYOUT



ESMC12-XX-20A2

POS.	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F
02	2.54	6.83	5.83	8.23	8.83	10.36
03	5.08	9.37	8.37	10.77	11.37	12.90
04	7.62	11.91	10.91	13.31	13.91	15.44
05	10.16	14.45	13.45	15.85	16.45	17.98
06	12.70	16.99	15.99	18.39	18.99	20.52
12	27.94	32.23	31.23	33.63	34.23	35.76

SPECIFICATIONS:

Material:

Insulator: Hi-temp thermoplastic, rated UL 94V-0

Insulator color: Black

Contact: Copper Alloy

Hold Down: Copper Alloy, Tin plated

Plating:

Gold flash over Nickel underplate on contact area,

Tin over Nickel underplate on solder tails

Electrical:

Voltage rating: 180V

Current rating: 24 Amp max. (Single Contact)

Contact resistance: 10 mohms max

Insulation resistance: 10,000 Mohms min

Dielectric withstanding voltage: 1390 VAC for 1 minute

Temperature Rating:

Operating temperature: -55°C to +125°C

Environmental:

Lead free, RoHS compliant.

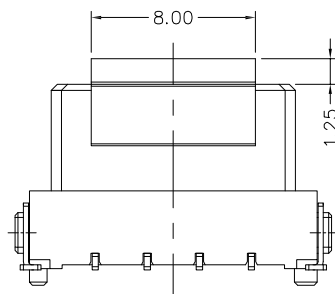
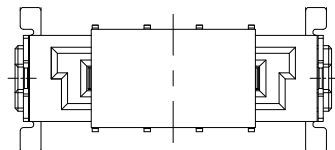


PACKAGED ON TAPE & REEL

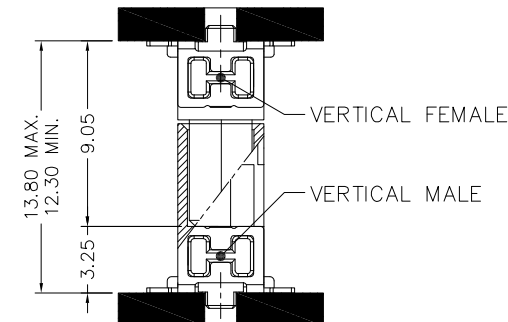
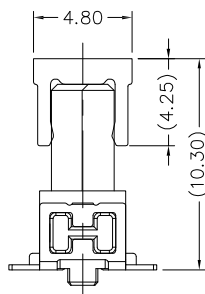
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED X.X ± 0.35 MM X.XX ± 0.20 ANGLE ± 2° X.XXX ± 0.10			ADAM TECH 909 Rahway Avenue, Union, NJ 07083 Phone: 908-687-5000 adam-tech.com		
DRAWN	LH	12/16/25	TITLE 2.54mm POWER BOARD TO BOARD STACKING CONNECTOR, FEMALE, STRAIGHT, SMT TYPE		
CHECKED	RC	12/16/25			
APPROVED					
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REF: S00242T		SCALE: NTS		SHEET 1 OF 3	

APPROVED: _____

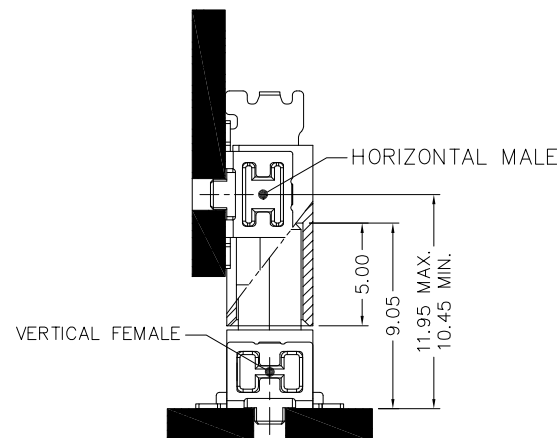
DATE: _____ TITLE: _____



With CAP



Mating Application - Board to Board Stacking



Mating Application - Daughter Card to Motherboard

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

X.X ± 0.35
MM X.XX ± 0.20 ANGLE ± 2°
X.XXX ± 0.10

DRAWN	LH	12/16/25
CHECKED	RC	12/16/25
APPROVED		

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ADAM
TECH

909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
adam-tech.com

TITLE
2.54mm POWER BOARD TO BOARD STACKING
CONNECTOR, FEMALE, STRAIGHT, SMT TYPE

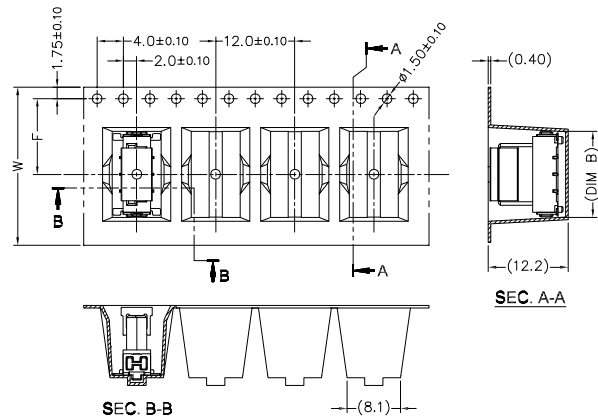
SIZE X	PART NO. ESMC12-XX-20A2	REV. B
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REF: S00242T	SCALE: NTS	SHEET 2 OF 3
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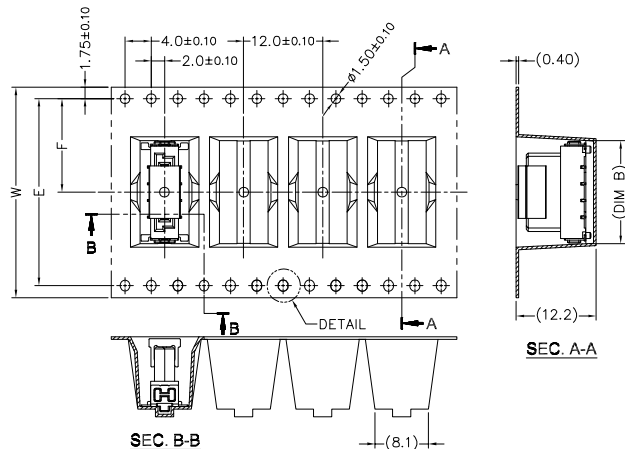
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DATE: _____ TITLE: _____

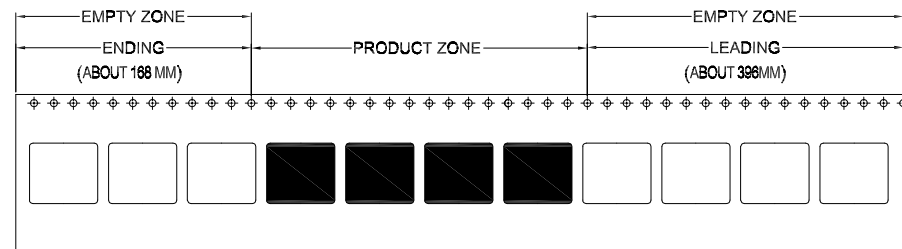
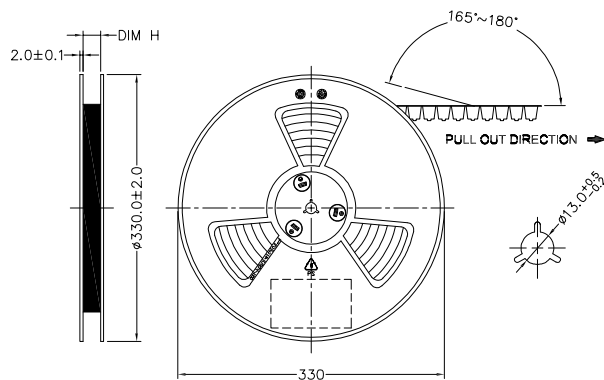
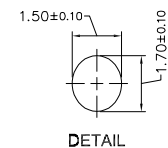
Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 3 FOR REVISION				



SEC. A-A
SEC. B-B
PULL OUT DIRECTION ➡
CARRIER DIMENSION - 2P to 3P



SEC. A-A
SEC. B-B
PULL OUT DIRECTION ➡
CARRIER DIMENSION - 4P to 12P



PULL OUT DIRECTION ➡

② PACKING LIST

POS.	PCS (REEL)	REEL (OUTSIDE CTN)	PCS (OUTSIDE CTN)	DIM H +0.2/-0	CTN SIZE
2P	400	7	2800	24.40	350*350*260
3P					
4P		5	2000	32.40	
5P					
6P		4	1600	44.40	
12P		3	1200	56.40	

② DIM. TABLE

POS.	DIM B	DIM E ±0.10	DIM F ±0.10	DIM W +0.30/-0.10
2P	10.6		11.50	24.00
3P	13.1			
4P	15.6	28.40	14.20	32.00
5P	18.2			
6P	20.7	40.40	20.20	44.00
12P	36.0	52.40	26.20	56.00

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

X.X ± 0.35
MM X.XX ± 0.20 ANGLE ± 2°
X.XXX ± 0.10

DRAWN	LH	12/16/25
CHECKED	RC	12/16/25
APPROVED		

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TITLE
2.54mm POWER BOARD TO BOARD STACKING
CONNECTOR, FEMALE, STRAIGHT, SMT TYPE

SIZE	PART NO.	REV.
X	ESMC12-XX-20A2	B

REF: S00242T	SCALE: NTS	SHEET 3 OF 3
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