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7-146256-0 Product Details

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7-146256-0

TE Internal Number: 7-146256-0

✅ Active

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.100 inch AMPMODU Headers

🍃 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Connector
- Header Type = Breakaway
- 40 Positions
- Mating Post Length = 5.84 mm
- Row-to-Row Spacing = 2.54 mm
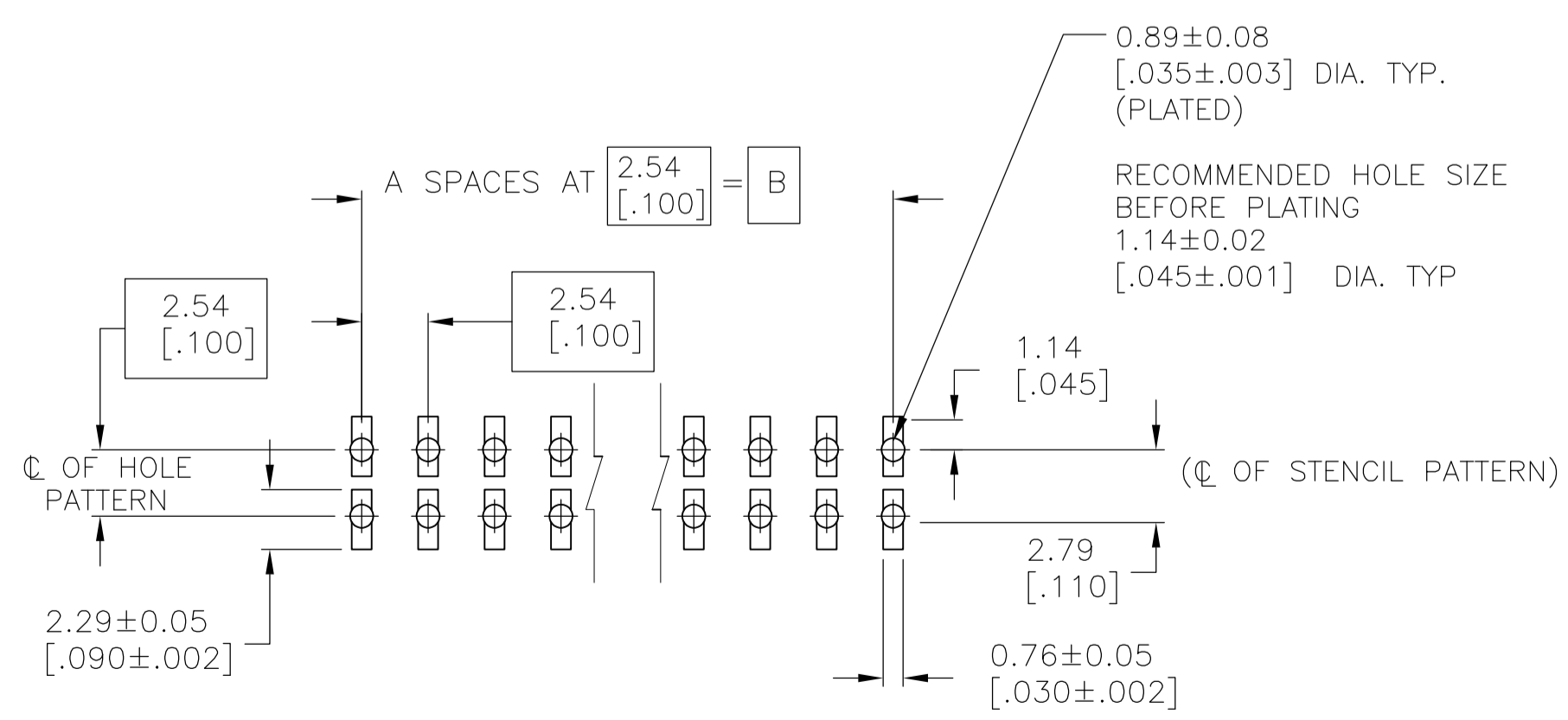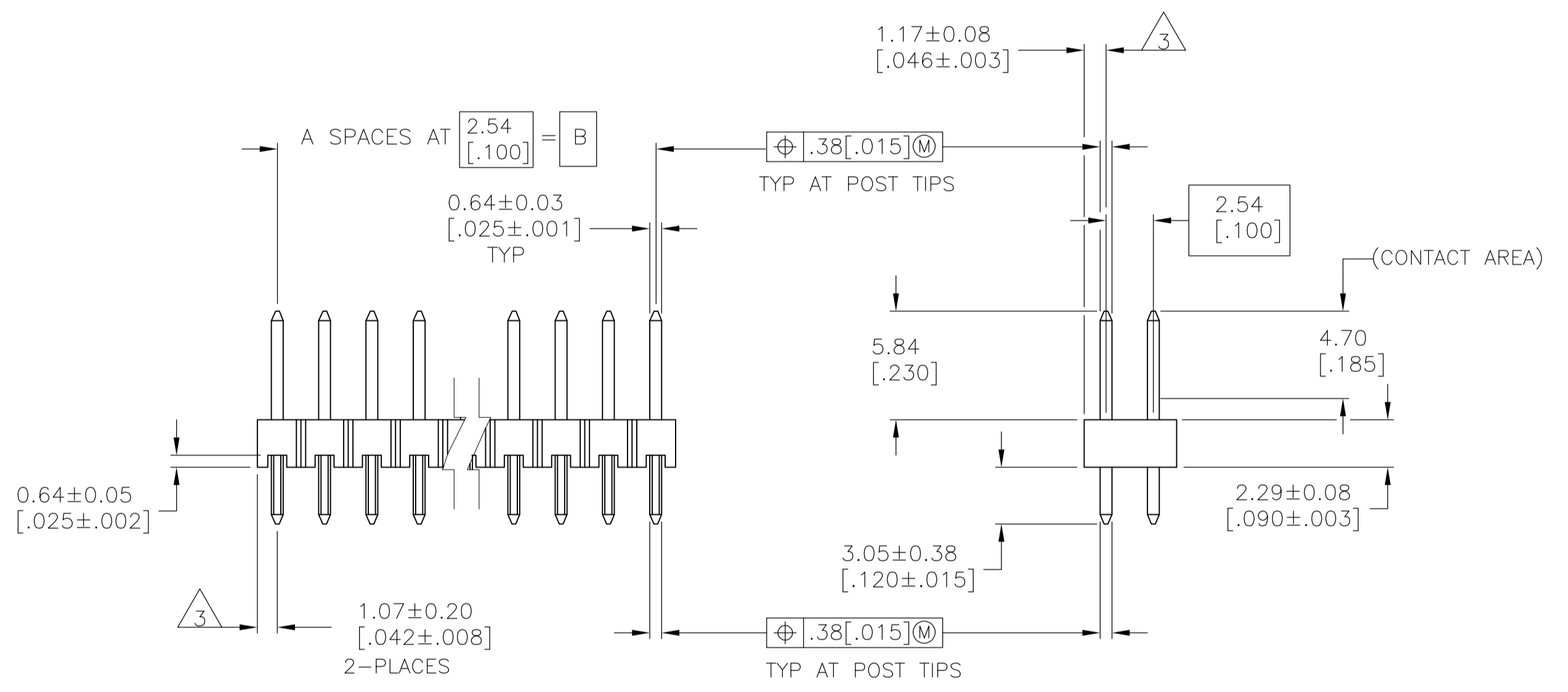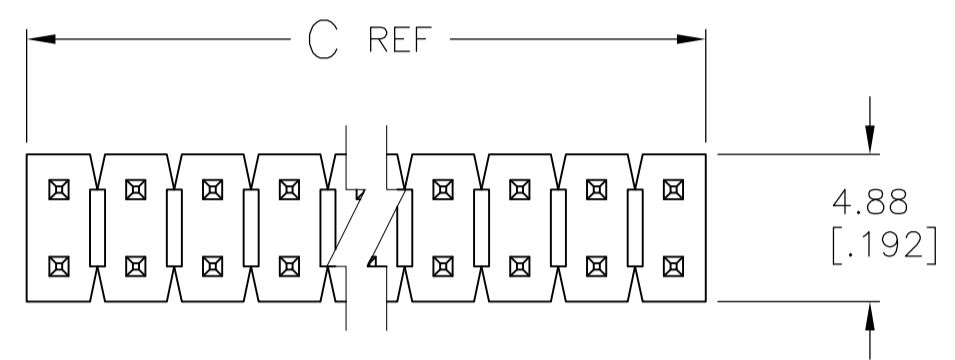
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Documentation & Additional Information

Product Drawings:
- HEADER ASSEMBLY, MOD , BREAKAWAY, DOUBLE ROW, VE... (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- None Available

Application Specifications:
- None Available

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version F)
- 3D Model (IGES, Version F)
- 3D Model (STEP, Version F)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Type = Connector
- Mount Angle = Vertical
- PCB Mount Retention = Without
- Surface Mount Compatible = No
- Board Standoff = Without
- Mating Connector Lock = Without
- Breakaway Header = Yes
- PCB Mounting Orientation = Vertical
- Post Size (mm [in]) = 0.64 [.025]

Mechanical Attachment:
- Mounting Ears = Without
- Panel Mount Retention = Without

Termination Features:
- Termination Post Length (mm [in]) = 3.05 [0.120]
- Solder Tail Contact Plating = Matte Tin, Matte Tin over Nickel

Dimensions:
- Mating Post Length (mm [in]) = 5.84 [0.230]
- PCB Thickness, Recommended (mm [in]) = 1.60 [0.063]

Body Features:
- Header Type = Breakaway
- Row-to-Row Spacing (mm [in]) = 2.54 [0.100]
- Selectively Loaded = No
- Mount Type = Printed Circuit Board

Contact Features:
- Contact Plating, Mating Area, Material = Matte Tin
- Contact Shape = Square
- Contact Base Material = Phosphor Bronze

Housing Features:
- Housing Material = Liquid Crystal Polymer (LCP)
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Positions = 40
- Number of Rows = 2

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C, Reflow solder capable to 245°C, Reflow solder capable to 260°C, Pin-in-Paste capable to 245°C, Pin-in-Paste capable to 260°C
- RoHS/ELV Compliance History = Always was RoHS compliant

Conditions for Usage:
- High Temperature Housing = Yes
- High Temperature Compatible = Yes

Operation/Application:
- High Speed Serial Data Connector = No

Other:
- Brand = TE Connectivity

LOC	DIST	REVISIONS				
AD	00					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
			F2	REVISED PER ECO-11-004587	11MAR11	RK	HMR

1. ASSEMBLY MAY BE BROKEN TO THE DESIRED NUMBER OF POSITIONS

2. TRUE POSITION TOLERANCE OF THE POST TIPS APPLIES WHEN THE HEADER IS HELD FLAT AGAINST THE PRINTED CIRCUIT BOARD

△3 THE NOTED DIMENSIONS APPLY AT THE INTERSECTION OF THE POST AND HOUSING

△4 PLATING: 0.000381 [.000015] GOLD ON CONTACT AREA, .00254-0.00508 [.0000100-.0000200] MATTE TIN-LEAD ON SOLDER TAIL, ALL OVER 0.00127 [.000050] NICKEL.

△5 HOUSING: LCP, COLOR-BLACK. POST: PHOSPHOR BRONZE

△6 PLATING: 0.000381 [.000015] GOLD ON CONTACT AREA, .00254-0.00508 [.0000100-.0000200] MATTE TIN ON SOLDER TAIL, ALL OVER 0.00127 [.000050] NICKEL.

△7 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

C REF
4.88 [.192]

A SPACES AT 2.54 [.100] = B
0.64±0.03 [.025±.001] TYP
⊕ .38[.015]Ⓜ TYP AT POST TIPS
1.17±0.08 [.046±.003]
2.54 [.100]
(CONTACT AREA)
5.84 [.230]
4.70 [.185]
0.64±0.05 [.025±.002]
2.29±0.08 [.090±.003]
3.05±0.38 [.120±.015]
1.07±0.20 [.042±.008] 2-PLACES
⊕ .38[.015]Ⓜ TYP AT POST TIPS

A SPACES AT 2.54 [.100] = B
2.54 [.100]
2.54 [.100]
0.89±0.08 [.035±.003] DIA. TYP. (PLATED)
RECOMMENDED HOLE SIZE BEFORE PLATING 1.14±0.02 [.045±.001] DIA. TYP
1.14 [.045]
(℄ OF STENCIL PATTERN)
℄ OF HOLE PATTERN
2.29±0.05 [.090±.002]
2.79 [.110]
0.76±0.05 [.030±.002]

RECOMMENDED PC BOARD MOUNTING DIMENSIONS FOR .063 [1.60] THICK PC BOARD AND .012 [.305] STENCIL THICK

Left part table

PLATING	C	B	A	NO. OF POSITIONS	PART NUMBER
△6	101.19 [3.984]	99.06 [3.900]	39	80	9-146256-0
△6	98.65 [3.884]	96.52 [3.800]	38	78	8-146256-9
△6	96.11 [3.784]	93.98 [3.700]	37	76	8-146256-8
△6	93.57 [3.684]	91.44 [3.600]	36	74	8-146256-7
△6	91.03 [3.584]	88.90 [3.500]	35	72	8-146256-6
△6	88.49 [3.484]	86.36 [3.400]	34	70	8-146256-5
△6	85.95 [3.384]	83.82 [3.300]	33	68	8-146256-4
△6	83.41 [3.284]	81.28 [3.200]	32	66	8-146256-3
△6	80.87 [3.184]	78.74 [3.100]	31	64	8-146256-2
△6	78.33 [3.084]	76.20 [3.000]	30	62	8-146256-1
△6	75.79 [2.984]	73.66 [2.900]	29	60	8-146256-0
△6	73.25 [2.884]	71.12 [2.800]	28	58	7-146256-9
△6	70.71 [2.784]	68.58 [2.700]	27	56	7-146256-8
△6	68.17 [2.684]	66.04 [2.600]	26	54	7-146256-7
△6	65.63 [2.584]	63.5 [2.500]	25	52	7-146256-6
△6	63.09 [2.484]	60.96 [2.400]	24	50	7-146256-5
△6	60.55 [2.384]	58.42 [2.300]	23	48	7-146256-4
△6	58.01 [2.284]	55.88 [2.200]	22	46	7-146256-3
△6	55.47 [2.184]	53.34 [2.100]	21	44	7-146256-2
△6	52.93 [2.084]	50.80 [2.000]	20	42	7-146256-1
△6	50.39 [1.984]	48.26 [1.900]	19	40	7-146256-0
△6	47.85 [1.884]	45.72 [1.800]	18	38	6-146256-9
△6	45.31 [1.784]	43.18 [1.700]	17	36	6-146256-8
△6	42.77 [1.684]	40.64 [1.600]	16	34	6-146256-7
△6	40.23 [1.584]	38.10 [1.500]	15	32	6-146256-6
△6	37.69 [1.484]	35.56 [1.400]	14	30	6-146256-5
△6	35.15 [1.384]	33.02 [1.300]	13	28	6-146256-4
△6	32.61 [1.284]	30.48 [1.200]	12	26	6-146256-3
△6	30.07 [1.184]	27.94 [1.100]	11	24	6-146256-2
△6	27.53 [1.084]	25.40 [1.000]	10	22	6-146256-1
△6	24.99 [.984]	22.86 [.900]	9	20	6-146256-0
△6	22.45 [.884]	20.32 [.800]	8	18	5-146256-9
△6	19.91 [.784]	17.78 [.700]	7	16	5-146256-8
△6	17.37 [.684]	15.24 [.600]	6	14	5-146256-7
△6	14.83 [.584]	12.70 [.500]	5	12	5-146256-6
△6	12.29 [.484]	10.16 [.400]	4	10	5-146256-5
△6	9.75 [.384]	7.62 [.300]	3	8	5-146256-4
△6	7.21 [.284]	5.08 [.200]	2	6	5-146256-3
△6	4.67 [.184]	2.54 [.100]	1	4	5-146256-2
△6	2.13 [.084]	[-]	0	2	5-146256-1

Right part table

PLATING	C	B	A	NO. OF POSITIONS	PART NUMBER
△4	101.19 [3.984]	99.06 [3.900]	39	80	4-146256-0
△4	98.65 [3.884]	96.52 [3.800]	38	78	3-146256-9
△4	96.11 [3.784]	93.98 [3.700]	37	76	3-146256-8
△4	93.57 [3.684]	91.44 [3.600]	36	74	3-146256-7
△4	91.03 [3.584]	88.90 [3.500]	35	72	3-146256-6
△4	88.49 [3.484]	86.36 [3.400]	34	70	3-146256-5
△4	85.95 [3.384]	83.82 [3.300]	33	68	3-146256-4
△4	83.41 [3.284]	81.28 [3.200]	32	66	3-146256-3
△4	80.87 [3.184]	78.74 [3.100]	31	64	3-146256-2
△4	78.33 [3.084]	76.20 [3.000]	30	62	3-146256-1
△4	75.79 [2.984]	73.66 [2.900]	29	60	3-146256-0
△4	73.25 [2.884]	71.12 [2.800]	28	58	2-146256-9
△4	70.71 [2.784]	68.58 [2.700]	27	56	2-146256-8
△4	68.17 [2.684]	66.04 [2.600]	26	54	2-146256-7
△4	65.63 [2.584]	63.5 [2.500]	25	52	2-146256-6
△4	63.09 [2.484]	60.96 [2.400]	24	50	2-146256-5
△4	60.55 [2.384]	58.42 [2.300]	23	48	2-146256-4
△4	58.01 [2.284]	55.88 [2.200]	22	46	2-146256-3
△4	55.47 [2.184]	53.34 [2.100]	21	44	2-146256-2
△4	52.93 [2.084]	50.80 [2.000]	20	42	2-146256-1
△4	50.39 [1.984]	48.26 [1.900]	19	40	2-146256-0
△4	47.85 [1.884]	45.72 [1.800]	18	38	1-146256-9
△4	45.31 [1.784]	43.18 [1.700]	17	36	1-146256-8
△4	42.77 [1.684]	40.64 [1.600]	16	34	1-146256-7
△4	40.23 [1.584]	38.10 [1.500]	15	32	1-146256-6
△4	37.69 [1.484]	35.56 [1.400]	14	30	1-146256-5
△4	35.15 [1.384]	33.02 [1.300]	13	28	1-146256-4
△4	32.61 [1.284]	30.48 [1.200]	12	26	1-146256-3
△4	30.07 [1.184]	27.94 [1.100]	11	24	1-146256-2
△4	27.53 [1.084]	25.40 [1.000]	10	22	1-146256-1
△4	24.99 [.984]	22.86 [.900]	9	20	1-146256-0
△4	22.45 [.884]	20.32 [.800]	8	18	146256-9
△4	19.91 [.784]	17.78 [.700]	7	16	146256-8
△4	17.37 [.684]	15.24 [.600]	6	14	146256-7
△4	14.83 [.584]	12.70 [.500]	5	12	146256-6
△4	12.29 [.484]	10.16 [.400]	4	10	146256-5
△4	9.75 [.384]	7.62 [.300]	3	8	146256-4
△4	7.21 [.284]	5.08 [.200]	2	6	146256-3
△4	4.67 [.184]	2.54 [.100]	1	4	146256-2
△4	2.13 [.084]	[-]	0	2	146256-1