

Customer Information Sheet

DRAWING No.: M80-828XXXXP

SHEET 2 OF 2

IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

ORDER CODE:

M80-828XXXXP

TOTAL No. OF WAYS

04, 06, 08, 10, 12
14, 16, 18, 20, 26
34

FINISH

22 - SELECTIVE GOLD
+ TIN/LEAD
42 - SELECTIVE GOLD
+ 100% TIN
45 - GOLD

Top view of the connector showing contact layout and dimensions. The overall width is labeled as $(2.00 \times \text{No. OF CONTACTS PER ROW}) + 4.10 \text{ MAX}$. The pitch between contacts is $2.00 \times (\text{No. OF CONTACTS PER ROW} - 1)$. The drawing shows two rows of contacts with a central latch area.

Section X-X view of the connector showing internal structure and dimensions. Key dimensions include: 5.20 MAX (overall height), 1.00 MAX (latch height), 5.55 MAX (body height), 7.55 ± 0.20 (total height), 0.36 MAX (latch thickness), and (5.06) (body width).

Side view of the connector showing profile and dimensions. Key dimensions include: 4.60 (latch width), 0.50 TYP (contact thickness), and 2.00 TYP (contact pitch).

Recommended PCB layout diagram showing contact positions and dimensions. Key dimensions include: 2.00 TYP (contact pitch), 8.00 (overall height), 3.20 TYP (latch height), 1.00 TYP (latch width), 2.25 TYP (contact width), 2.38 TYP (contact width), and $2.00 \times (\text{No. OF CONTACTS PER ROW} - 1)$ (overall width). The diagram also indicates 4 x Ø0.90 MIN TYP STRAIN RELIEF STRAP HOLES (OPTIONAL).

SPECIFICATIONS:

MATERIAL:

MOULDING = G-F PPS UL94V-0, BLACK
CONTACTS = PHOSPHOR BRONZE
LATCHES = BERYLLIUM COPPER
PICK/PLACE CAP = PHOSPHOR BRONZE

FINISH:

CONTACTS:

22 = 0.75µ GOLD ON CONTACT AREA,
3.0µ 90/10 TIN/LEAD ON TAILS
42 = 0.75µ GOLD ON CONTACT AREA,
3.0µ 100% TIN OVER NICKEL ON TAILS
45 = 0.75µ GOLD ALL OVER
LATCH = 1.25µ NICKEL

ELECTRICAL:

CURRENT RATING AT 25°C = 3.0A MAX
CURRENT RATING AT 85°C = 2.2A MAX
WORKING VOLTAGE = 800V AC/DC
VOLTAGE PROOF = 1200V AC/DC
CONTACT RESISTANCE (INITIAL) = 20mΩ MAX
CONTACT RESISTANCE (AFTER CONDITIONING) = 25mΩ MAX
INSULATION RESISTANCE (INITIAL) = 1,000MΩ MIN
INSULATION RESISTANCE (AFTER CONDITIONING) = 100MΩ MIN

MECHANICAL:

DURABILITY = 500 OPERATIONS

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

TUBE

FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

NOTES:

1. 2-OFF STRAIN RELIEF STRAPS
M80-0030006 MAY BE USED
WITH THIS CONNECTOR.

MSP	8	21.12.15	12814
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.PERREN		
CHECKED:	S.BENNETT		
DRAWN:	J. EVANS		
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN

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TOLERANCES

X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA:

mm²

TITLE: DATAMATE L-TEK
MALE DIL VERTICAL SMT
ASSEMBLY - LATCHED, P/PLACE

DRAWING NUMBER:

M80-828XXXXP

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+ 100% TIN
45 - GOLD

Top view of the connector showing contact layout and dimensions. The overall width is labeled as $(2.00 \times \text{No. OF CONTACTS PER ROW}) + 4.10 \text{ MAX}$. The pitch between contacts is $2.00 \times (\text{No. OF CONTACTS PER ROW} - 1)$. The drawing shows two rows of contacts with a central latch area.

Section X-X view of the connector showing internal structure and dimensions. Key dimensions include a maximum width of 5.20 MAX, a maximum height of 5.55 MAX, a maximum latch height of 1.00 MAX, a total height of 7.55 ± 0.20 , a maximum latch width of 0.36 MAX, and a total width of (5.06).

Side view of the connector showing profile and dimensions. The overall length is 4.60. The contact pitch is 2.00 TYP. The contact diameter is $\varnothing 0.50 \text{ TYP}$. A detail callout shows a 0.2mm dimension.

Recommended PCB layout diagram showing contact spacing and dimensions. The layout shows two rows of contacts with a pitch of 2.00 TYP. The overall width is $2.00 \times (\text{No. OF CONTACTS PER ROW} - 1)$. The contact diameter is $\varnothing 0.90 \text{ MIN TYP}$. The spacing between the rows is 8.00. The distance from the edge to the first contact is 3.20 TYP. The distance between the rows is 1.00 TYP. The distance from the last contact to the edge is 2.25 TYP. The total width is 2.38 TYP. The drawing also shows a strain relief strap with a hole (optional).

SPECIFICATIONS:

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WORKING VOLTAGE = 800V AC/DC
VOLTAGE PROOF = 1200V AC/DC
CONTACT RESISTANCE (INITIAL) = $20\text{m}\Omega$ MAX
CONTACT RESISTANCE (AFTER CONDITIONING) = $25\text{m}\Omega$ MAX
INSULATION RESISTANCE (INITIAL) = $1,000\text{M}\Omega$ MIN
INSULATION RESISTANCE (AFTER CONDITIONING) = $100\text{M}\Omega$ MIN

MECHANICAL:

DURABILITY = 500 OPERATIONS

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO $+125^{\circ}\text{C}$

PACKING:

TUBE

FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

NOTES:

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X. = $\pm 1\text{mm}$
X.X = $\pm 0.50\text{mm}$
X.XX = $\pm 0.10\text{mm}$
X.XXX = $\pm 0.01\text{mm}$
ANGLES = $\pm 5^{\circ}$
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA:

mm²

TITLE: DATAMATE L-TEK
MALE DIL VERTICAL SMT
ASSEMBLY - LATCHED, P/PLACE

DRAWING NUMBER:

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SHT
2
OF
2

Mouser Electronics

Authorized Distributor

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Harwin:

M80-8280642P