SPECIFICATIONS:
 MATERIAL:
  MOULDING = GLASS-FILLED PPS, UL94V-0, BLACK
  CONTACT CLIP = BERYLLIUM COPPER
  CONTACT SHELL = BRASS
  JACKSCREW = STAINLESS STEEL
 FINISH:
  01 = 0.3µ GOLD CLIP, 3.5-5.0µ TIN/LEAD SHELL
  05 = 0.3µ GOLD CLIP, 0.25-0.3µ GOLD SHELL
  42 = 0.3µ GOLD CLIP,
       3.5-5.0µ 100% TIN OVER NICKEL SHELL
 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 = 25 mΩ MAX
  INSULATION RESISTANCE = 100 MΩ MIN
 MECHANICAL:
  DURABILITY = 500 OPERATIONS
  INSERTION FORCE (∅0.5mm GAUGE) = 2.8N MAX
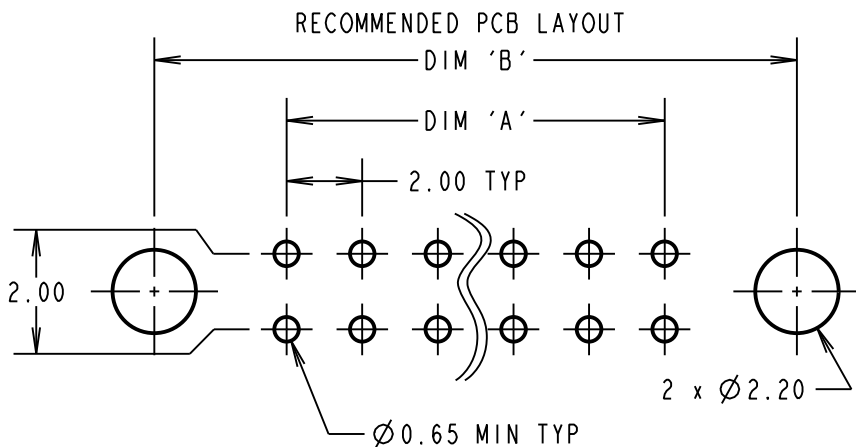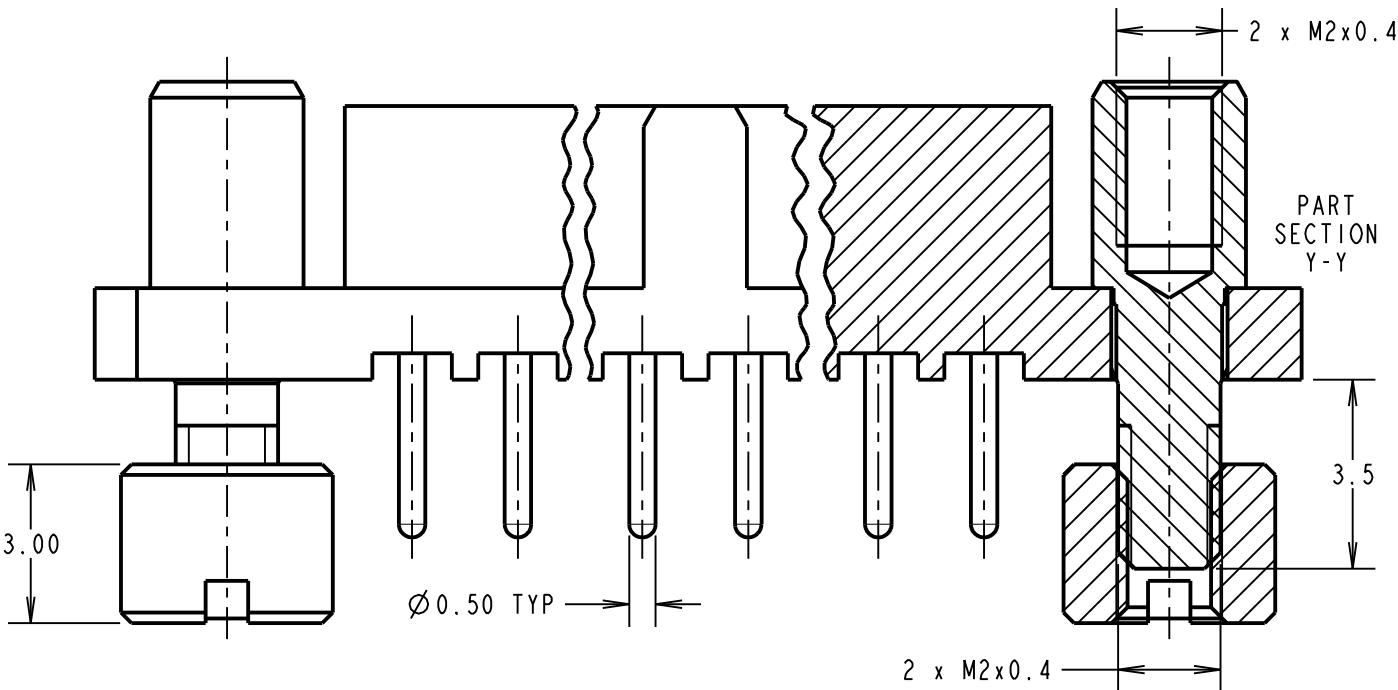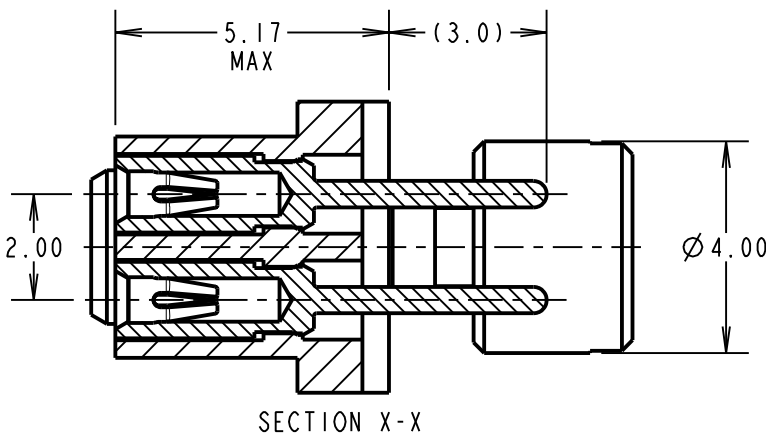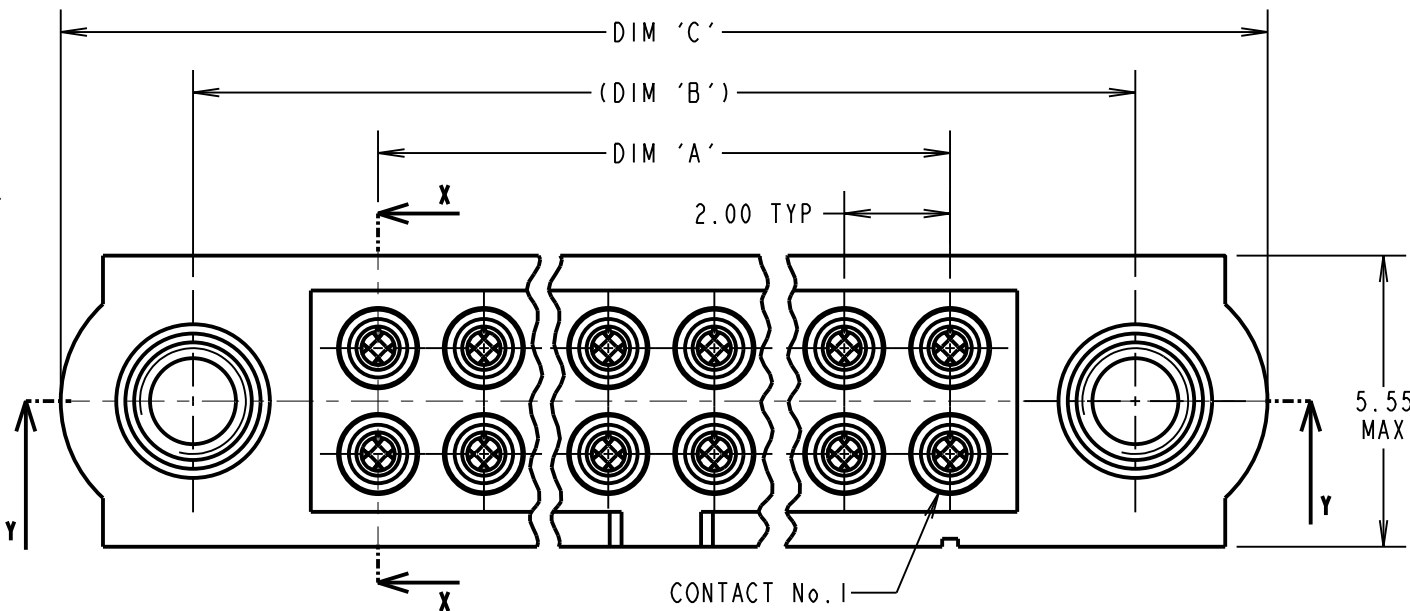 WITHDRAWAL FORCE (∅0.5mm GAUGE) = 0.2N MIN
 ENVIRONMENTAL:
  TEMPERATURE RANGE = -55°C TO +125°C
 PACKING:
  TUBE
FOR COMPLETE SPECIFICATION, SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

DIM 'C'
(DIM 'B')
DIM 'A'
2.00 TYP
X
5.55 MAX
Y
CONTACT No.1
X
Y

5.17 MAX
(3.0)
2.00
∅ 4.00
SECTION X-X

2 x M2x0.4
PART SECTION Y-Y
3.5
3.00
∅0.50 TYP
2 x M2x0.4

RECOMMENDED PCB LAYOUT
DIM 'B'
DIM 'A'
2.00 TYP
2.00
∅0.65 MIN TYP
2 x ∅2.20

DIMENSION	CALCULATION
DIM 'A'	TOTAL No. OF CONTACTS - 2
DIM 'B'	TOTAL No. OF CONTACTS + 5
DIM 'C'	TOTAL No. OF CONTACTS + 10

EXAMPLE: CONNECTOR WITH 20 CONTACTS, GOLD CLIP
AND 100% TIN SHELL, M80-4052042

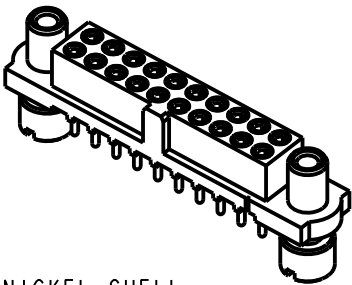DIM 'A' = 18.00mm, DIM 'B' = 25.00mm, DIM 'C' = 30.00mm

ORDER CODE:
M80-405XXXX
TOTAL No. OF CONTACTS
04 TO 50
(EVEN NUMBERS ONLY)

FINISH CODE
01 - GOLD CLIP, TIN/LEAD SHELL
05 - GOLD CLIP, GOLD SHELL
42 - GOLD CLIP, 100% TIN OVER NICKEL SHELL

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:
SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm²

TITLE: JACKSCREW DATAMATE
DIL VERTICAL PC-TAIL FEMALE
'REVERSE FIX' AND BOARD-MOUNT

DRAWING NUMBER:
M80-405XXXX

SHT 2 OF 2

Mouser Electronics

Authorized Distributor

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Harwin:

  M80-4050601 M80-4051001 M80-4051042 M80-4051201 M80-4051242 M80-4051401 M80-4051442 M80-4051801 M80-4051842 M80-4052042 M80-4052601 M80-4052642 M80-4053401 M80-4053442 M80-4054201 M80-4055001 M80-4050605 M80-4054205 M80-4055005 M80-4051405 M80-4051005 M80-4051205 M80-4050805 M80-4051605 M80-4053405 M80-4052605 M80-4052005 M80-4050405 M80-4050801