

Customer Information Sheet

DRAWING No.: M80-400000F2-XX-XXX-00-000

IF IN DOUBT - ASK

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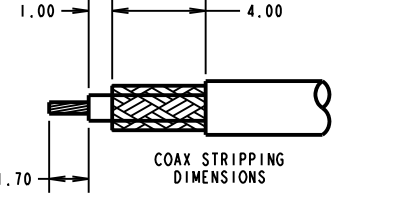
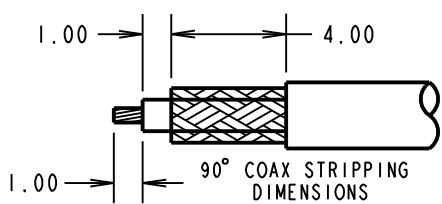
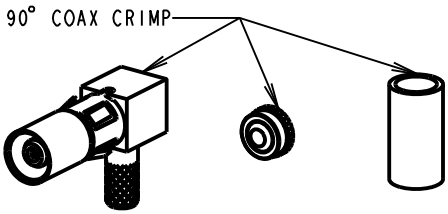
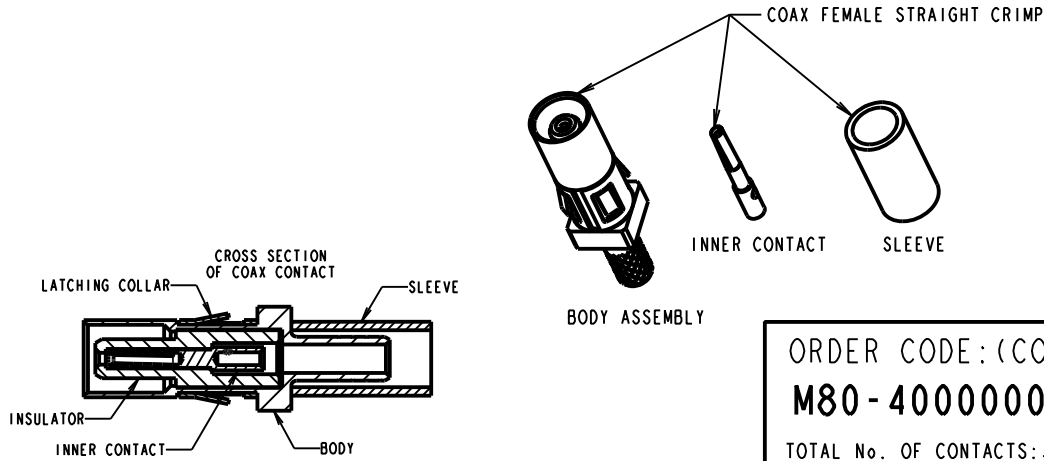
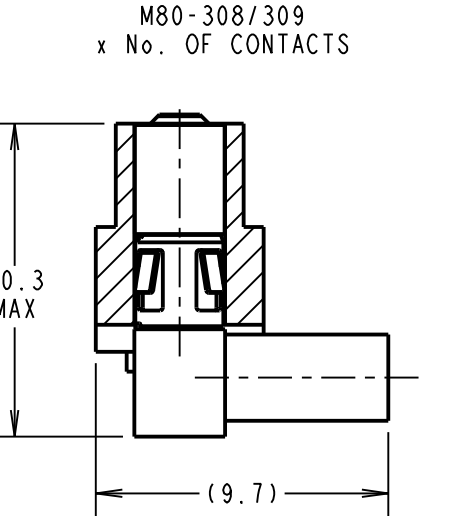
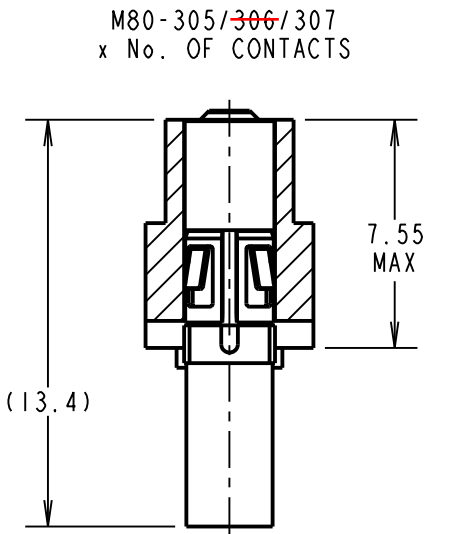
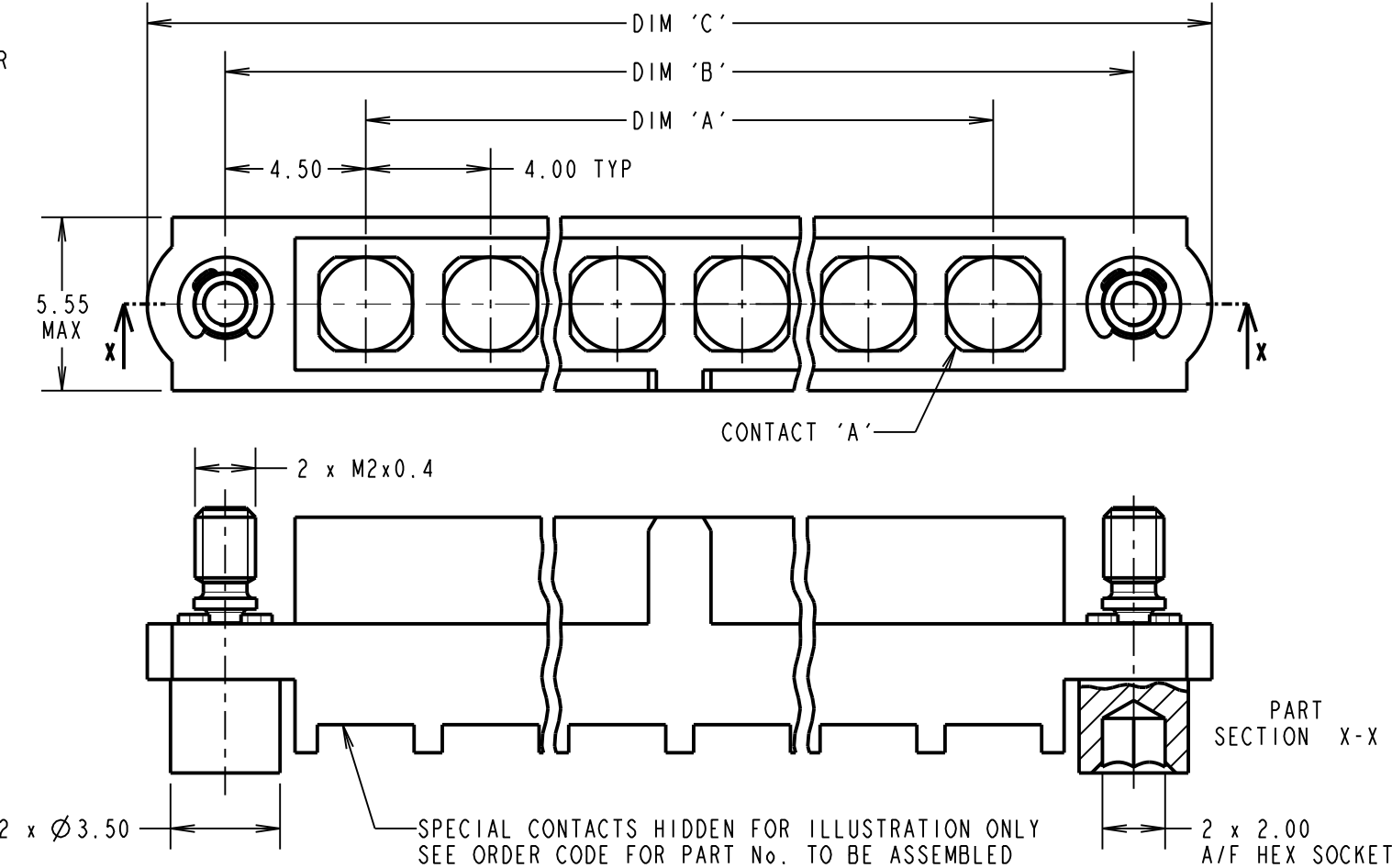
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

**SPECIFICATIONS:**  
**MATERIAL:**  
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK  
COAX CONTACT:  
BODY, SLEEVE, END PLUG = COPPER ALLOY  
INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER  
INSULATOR = PTFE  
JACKSCREW, CIRCLIP = STAINLESS STEEL  
**FINISH:**  
COAX CONTACT  
BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD  
LATCHING COLLAR: = NICKEL  
**ELECTRICAL:**  
INSULATION RESISTANCE = 100MΩ MIN  
COAX CONTACT:  
FREQUENCY RANGE = 6GHz  
IMPEDANCE = 50Ω  
V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX  
CONTACT RESISTANCE = 6mΩ MAX  
INSULATION RESISTANCE = 10<sup>6</sup>MΩ @250V AC  
OPERATING VOLTAGE = 180V AC @ 500mA  
MAXIMUM VOLTAGE = 1000V AC  
**MECHANICAL:**  
DURABILITY = 500 OPERATIONS  
COAX CONTACT:  
INSERTION FORCE = 8N MAX  
WITHDRAWAL FORCE = 0.5N MIN  
**ENVIRONMENTAL:**  
TEMPERATURE RANGE = -55°C TO +125°C  
**PACKING:**  
BAG  
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

COAX CRIMP AND SOLDER CONTACTS ONLY



| DIMENSION                                                                                                                            | CALCULATION                |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| DIM 'A'                                                                                                                              | 4 x No. OF CONTACTS - 4.00 |
| DIM 'B'                                                                                                                              | 4 x No. OF CONTACTS + 5.00 |
| DIM 'C'                                                                                                                              | 4 x No. OF CONTACTS + 10.0 |
| EXAMPLE: CONNECTOR WITH 08 COAX CONTACTS,<br>M80-400000F2-08-305-00-000<br>DIM 'A' = 28.00mm, DIM 'B' = 37.00mm,<br>DIM 'C' = 42.0mm |                            |

ORDER CODE:(COAX CRIMP/SOLDER)  
**M80-400000F2-XX-XXX-00-000**

TOTAL No. OF CONTACTS: 02 TO 12

SPECIAL CONTACTS:  
305 = COAX CONTACT CRIMP 2.0mm M80-305  
~~306 = COAX CONTACT CRIMP 2.4mm M80-306~~  
307 = COAX CONTACT CRIMP 2.7mm M80-307  
308 = 90° COAX CONTACT CRIMP/SOLDER 2.0mm M80-308  
309 = 90° COAX CONTACT CRIMP/SOLDER 2.7mm M80-309

- NOTES:
- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
  - COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE.
  - FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/~~306~~/307/308/309.
  - RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR COAX SLEEVE = Z80-293.
  - COAX CONTACT EXTRACTION TOOL = Z80-290.
  - INSTRUCTION SHEETS ARE AVAILABLE.

|                  |      |          |        |
|------------------|------|----------|--------|
| MGP              | 6    | 04.12.19 | 21540  |
| NAME             | ISS. | DATE     | C/NOTE |
| APPROVED: MGP    |      |          |        |
| CHECKED: RP      |      |          |        |
| DRAWN: C.PENROSE |      |          |        |
| CUSTOMER REF.:   |      |          |        |
| ASSEMBLY DRG:    |      |          |        |

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TOLERANCES  
X. = ±1mm  
X.X = ±0.50mm  
X.XX = ±0.20mm  
X.XXX = ±0.01mm  
ANGLES = ±5°  
UNLESS STATED

MATERIAL:  
SEE ABOVE  
FINISH: SEE ABOVE  
S/AREA: mm<sup>2</sup>

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH HEX SOCKET J/SCREWS  
DRAWING NUMBER: M80-400000F2-XX-XXX-00-000  
SHT 5 OF 8

# Customer Information Sheet

DRAWING No.: M80-4000000F2-XX-XXX-00-000

IF IN DOUBT - ASK

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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

## SPECIFICATIONS:

### MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK

### POWER CONTACT:

BODY = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

JACKSCREW, CIRCLIP = STAINLESS STEEL

### FINISH:

#### POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

### ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC

VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = 100M $\Omega$  MIN

#### POWER CONTACT:

CONTACT RESISTANCE = 6m $\Omega$  MAX

CURRENT RATING = M80-325 = 20A MAX WITH 12AWG

M80-326 = 15A MAX WITH 14AWG

M80-327 = 10A MAX WITH 16AWG

M80-328 = 8A MAX WITH 18AWG

M80-329 = 5A MAX WITH 20AWG

M80-32A = 20A MAX WITH 12AWG

M80-32B = 15A MAX WITH 14AWG

M80-32C = 10A MAX WITH 16AWG

M80-PF5 = 40A MAX WITH 10AWG

CONTACT AS SPECIFIED

### MECHANICAL:

DURABILITY = 500 OPERATIONS

#### POWER CONTACT:

INSERTION FORCE:

M80-325/326/327/328/329/

32A/32B/32C = 8N MAX

M80-PF5 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN

### ENVIRONMENTAL:

TEMPERATURE RANGE:

M80-325/326/327/328/329/

32A/32B/32C = -55°C TO +125°C

M80-PF5 = -55°C TO +150°C

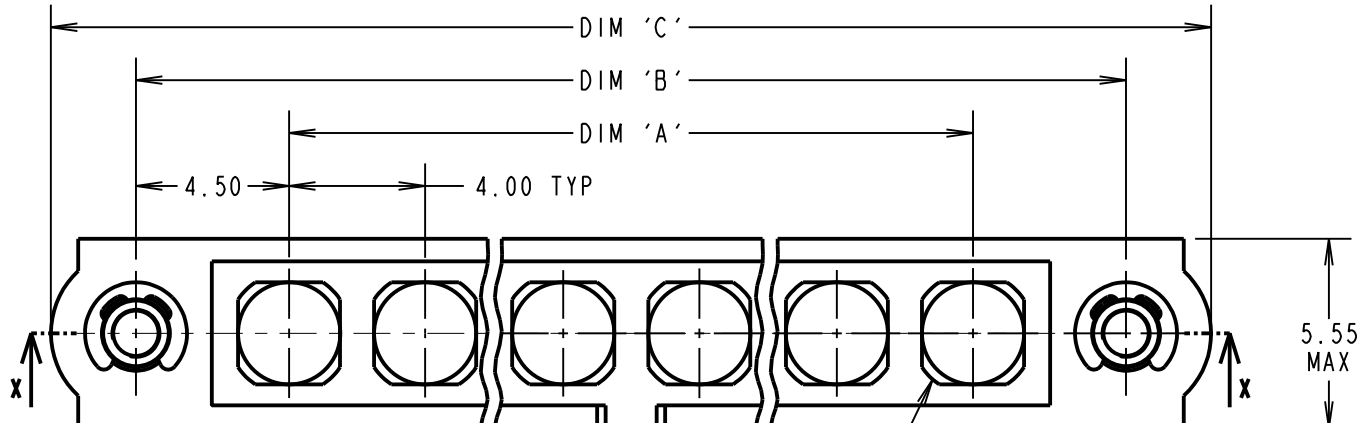
### PACKING:

BAG

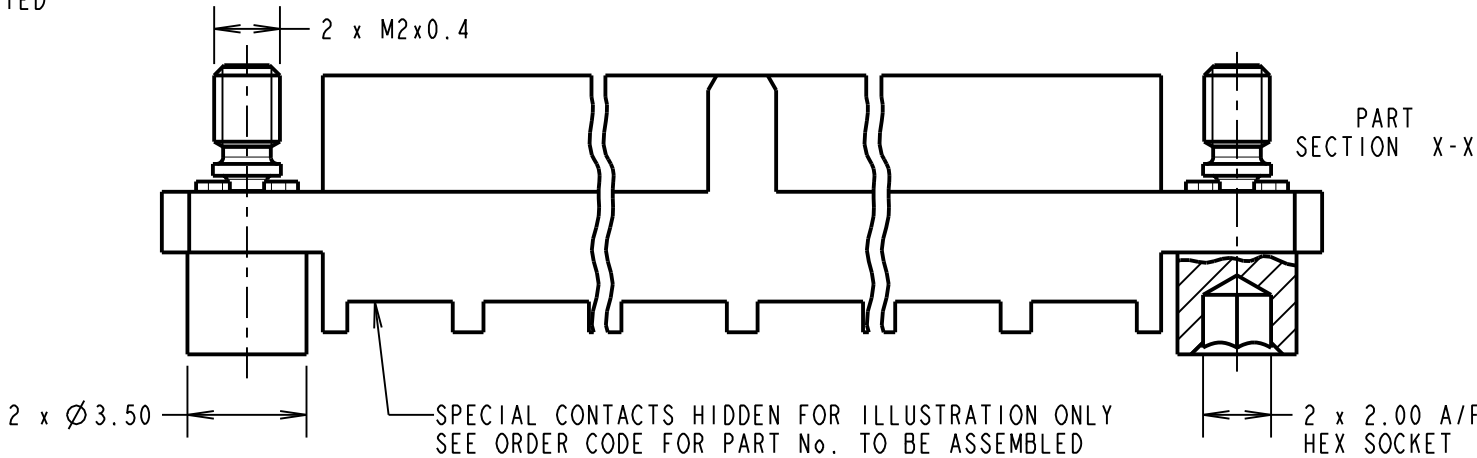
FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION C005XX (LATEST ISSUE)

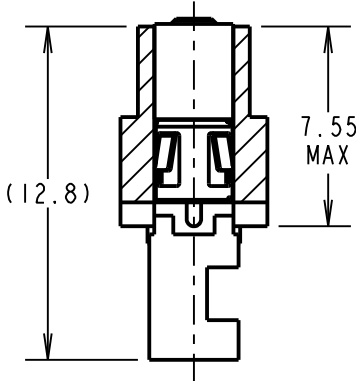
## POWER CRIMP AND SOLDER CONTACTS ONLY



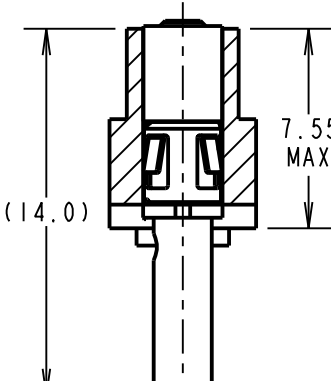
CONTACT 'A'



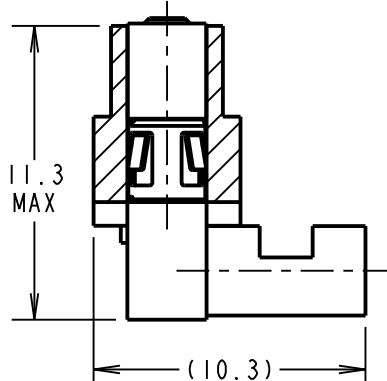
M80-325/326/327  
x No. OF CONTACTS



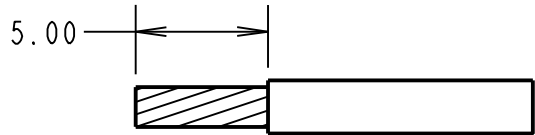
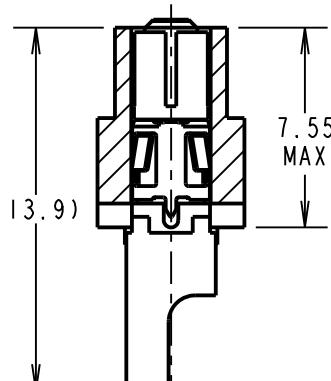
M80-328/329  
x No. OF CONTACTS



M80-32A/32B/32C  
x No. OF CONTACTS



M80-PF5  
x No. OF CONTACTS



POWER CABLE  
STRIPPING DIMENSIONS

ORDER CODE: (POWER CRIMP/SOLDER)

**M80-4000000F2-XX-XXX-00-000**

TOTAL No. OF CONTACTS: \_\_\_\_\_  
02 TO 12

SPECIAL CONTACTS: \_\_\_\_\_

325 = POWER CONTACT SOLDER 12AWG M80-325  
326 = POWER CONTACT SOLDER 14AWG M80-326  
327 = POWER CONTACT SOLDER 16AWG M80-327  
328 = POWER CONTACT SOLDER OR CRIMP 18AWG M80-328  
329 = POWER CONTACT SOLDER OR CRIMP 20AWG M80-329  
32A = 90° POWER CONTACT SOLDER 12AWG M80-32A  
32B = 90° POWER CONTACT SOLDER 14AWG M80-32B  
32C = 90° POWER CONTACT SOLDER 16AWG M80-32C  
PF5 = POWER CONTACT SOLDER 10AWG M80-PF5

### NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- FOR EXTRA POWER CONTACTS, USE PART NUMBERS:  
M80-325/326/327/328/329/32A/32B/32C/PF5.
- POWER CONTACT EXTRACTION TOOL = Z80-290.
- INSTRUCTION SHEETS ARE AVAILABLE.
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS  
M80-328/329 = Z80-294 WITH POSITIONER Z80-295.
- POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM.

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### TOLERANCES

X. =  $\pm 1$ mm  
X.X =  $\pm 0.50$ mm  
X.XX =  $\pm 0.20$ mm  
X.XXX =  $\pm 0.01$ mm

ANGLES =  $\pm 5^\circ$

UNLESS STATED

### MATERIAL:

SEE ABOVE

### FINISH:

SEE ABOVE

### S/AREA:

mm<sup>2</sup>

### TITLE:

DATAMATE MIX-TEK  
FEMALE ASSEMBLY WITH  
HEX SOCKET J/SCREWS

### DRAWING NUMBER:

**M80-4000000F2-XX-XXX-00-000**

SHT

6 OF 8

MGP 6 04.12.19 21540

NAME ISS. DATE C/NOTE

APPROVED: MGP

CHECKED: RP

DRAWN: C.PENROSE

CUSTOMER REF.:

ASSEMBLY DRG:

# Customer Information Sheet

DRAWING No.: M80-400000F2-XX-XXX-00-000

IF IN DOUBT - ASK

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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

## SPECIFICATIONS:

**MATERIAL:**  
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK  
POWER CONTACT: COPPER ALLOY

**COAX CONTACT:**  
BODY = COPPER ALLOY  
INNER CONTACT = COPPER ALLOY  
INSULATOR = PTFE  
JACKSCREW, CIRCLIP = STAINLESS STEEL

**FINISH:**  
POWER CONTACT: GOLD  
COAX CONTACT: BODY, INNER CONTACT = GOLD

**ELECTRICAL:**  
WORKING VOLTAGE = 800V AC/DC  
VOLTAGE PROOF = 1200V AC/DC  
INSULATION RESISTANCE = 100M $\Omega$  MIN

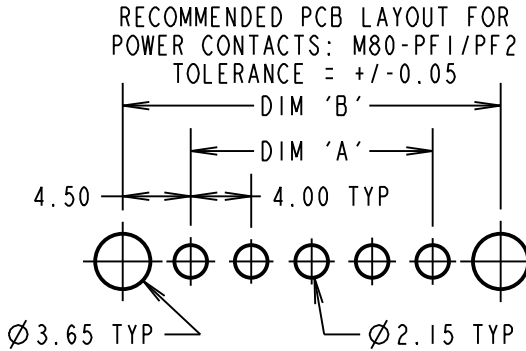
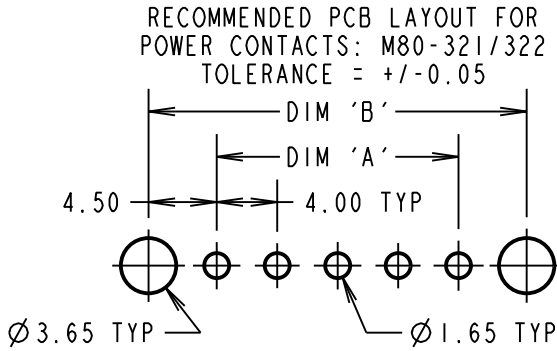
**POWER CONTACT:**  
CONTACT RESISTANCE = 6m $\Omega$  MAX  
CURRENT RATING:  
M80-321/322 = 20A MAX  
M80-PF1/PF2 = 40A MAX

**COAX CONTACT:**  
FREQUENCY RANGE = 6GHz  
IMPEDANCE = 50 $\Omega$   
V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX  
CONTACT RESISTANCE = 6m $\Omega$  MAX  
INSULATION RESISTANCE = 10<sup>6</sup>M $\Omega$  @250V AC  
OPERATING VOLTAGE = 180V AC @ 500mA  
MAXIMUM VOLTAGE = 1000V AC

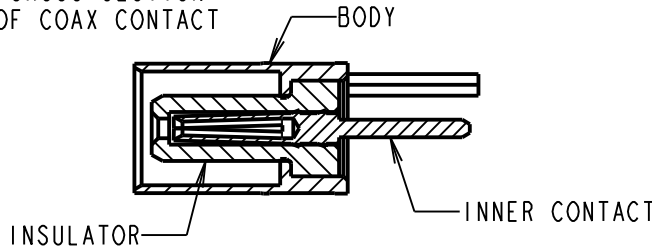
**MECHANICAL:**  
DURABILITY = 500 OPERATIONS  
**POWER CONTACT:**  
INSERTION FORCE:  
M80-321/322 = 8N MAX  
M80-PF1/PF2 = 15N MAX  
WITHDRAWAL FORCE = 0.5N MIN  
**COAX CONTACT:**  
INSERTION FORCE = 8N MAX  
WITHDRAWAL FORCE = 0.5N MIN

**ENVIRONMENTAL:**  
TEMPERATURE RANGE:  
M80-301/302/321/322 = -55°C TO +125°C  
M80-PF1/PF2 = -55°C TO +150°C

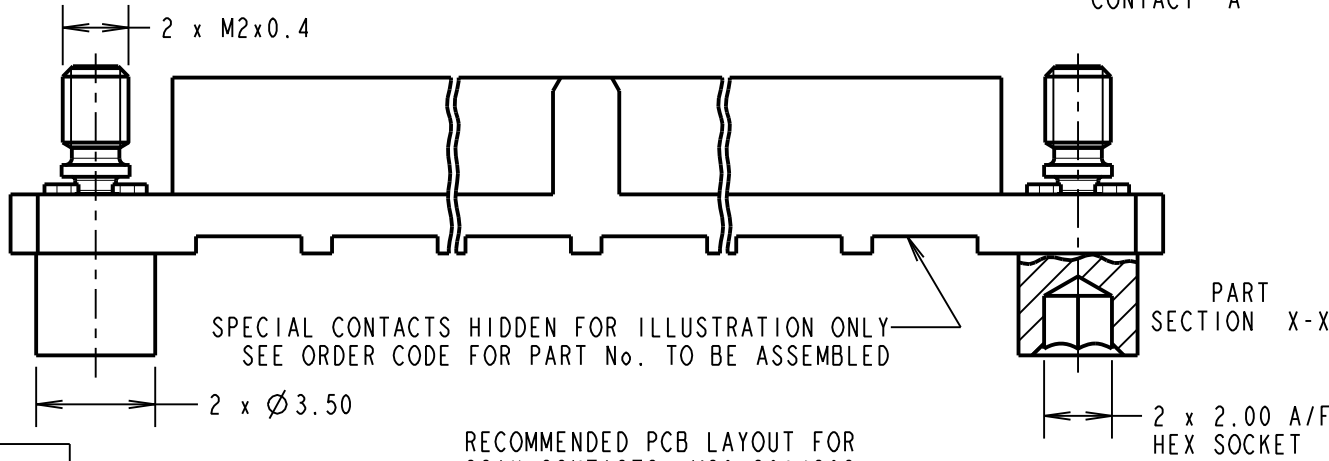
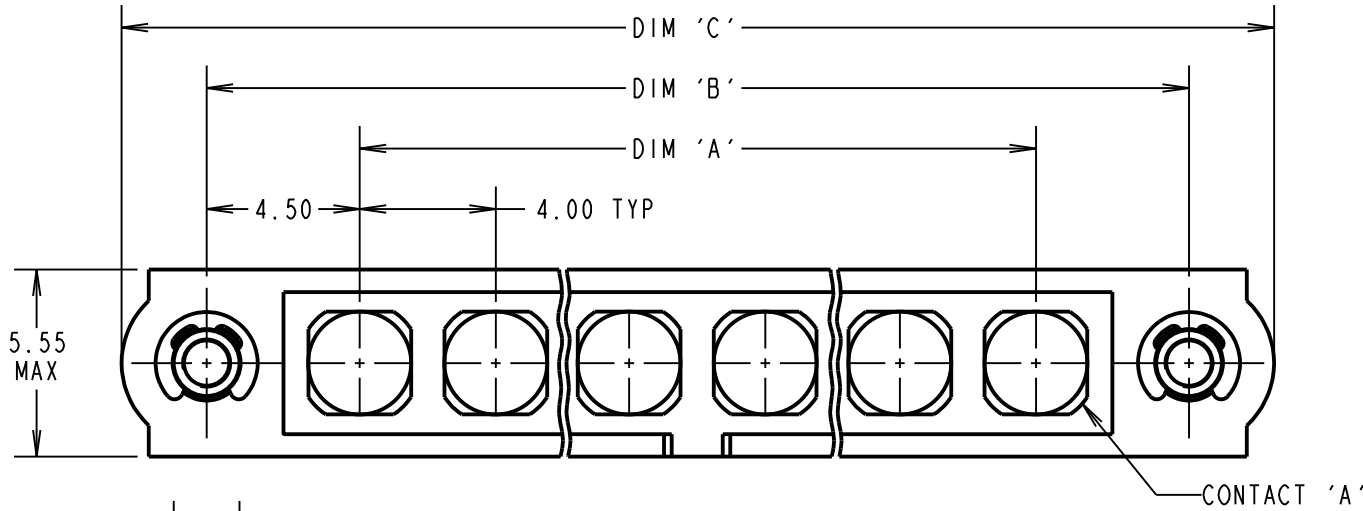
**PACKING:**  
TUBE  
FOR COMPLETE SPECIFICATION SEE COMPONENT  
SPECIFICATION C005XX (LATEST ISSUE)



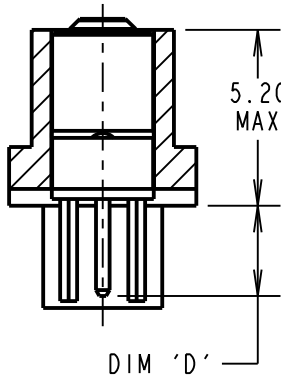
CROSS-SECTION  
OF COAX CONTACT



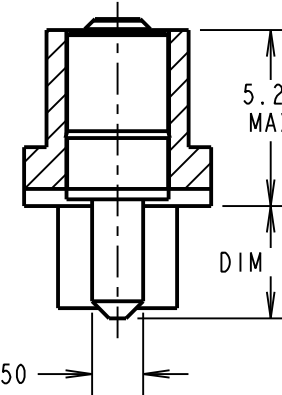
## PC TAIL VERTICAL CONTACTS ONLY



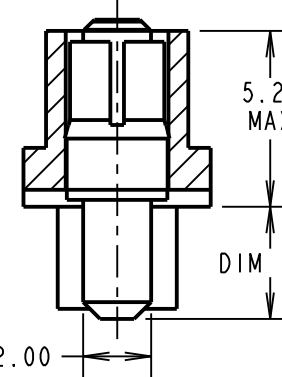
M80-301/302  
x No. OF CONTACTS



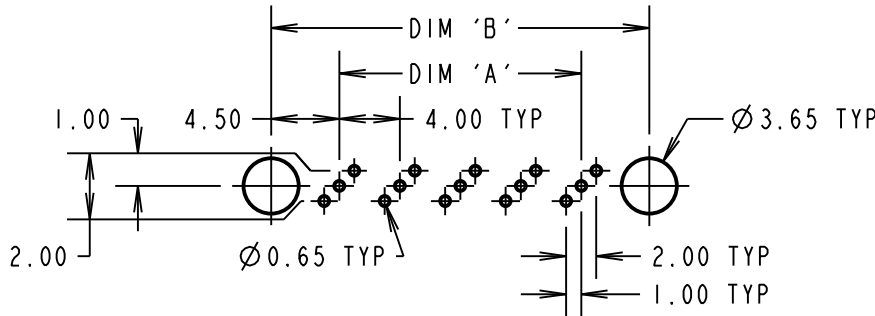
M80-321/322  
x No. OF CONTACTS



M80-PF1/PF2  
x No. OF CONTACTS



RECOMMENDED PCB LAYOUT FOR  
COAX CONTACTS: M80-301/302  
TOLERANCE = +/-0.05



ORDER CODE: (PC TAIL CONTACTS ONLY)

**M80-400000F2-XX-XXX-00-000**

TOTAL No. OF CONTACTS: \_\_\_\_\_  
02 TO 12

**SPECIAL CONTACTS:**  
301 = COAX CONTACT PC TAIL 3.0mm M80-301  
302 = COAX CONTACT PC TAIL 4.5mm M80-302  
321 = 20A POWER CONTACT PC TAIL 3.5mm M80-321  
322 = 20A POWER CONTACT PC TAIL 5.0mm M80-322  
PF1 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF1  
PF2 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF2

### DIMENSION

### CALCULATION

DIM 'A'

4 x No. OF CONTACTS - 4.00

DIM 'B'

4 x No. OF CONTACTS + 5.00

DIM 'C'

4 x No. OF CONTACTS + 10.0

DIM 'D'

M80-301 = 3.00mm, M80-302 = 4.50mm

DIM 'E'

M80-321 = 3.50mm, M80-322 = 5.00mm

DIM 'F'

M80-PF1 = 3.50mm, M80-PF2 = 5.00mm

EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS,  
M80-400000F2-08-301-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm  
DIM 'D' = 3.00mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,  
M80-400000F2-10-321-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm  
DIM 'E' = 3.50mm

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### TOLERANCES

X. =  $\pm 1$ mm  
X.X =  $\pm 0.50$ mm  
X.XX =  $\pm 0.20$ mm  
X.XXX =  $\pm 0.01$ mm  
ANGLES =  $\pm 5^\circ$   
UNLESS STATED

### MATERIAL:

SEE ABOVE

### FINISH:

SEE ABOVE

### S/AREA:

mm<sup>2</sup>

### TITLE:

DATAMATE MIX-TEK  
FEMALE ASSEMBLY WITH  
HEX SOCKET J/SCREWS

### DRAWING NUMBER:

**M80-400000F2-XX-XXX-00-000**

### SHT

7 OF 8

# Customer Information Sheet

DRAWING No.: M80-400000F2-XX-XXX-00-000

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NOT TO SCALE

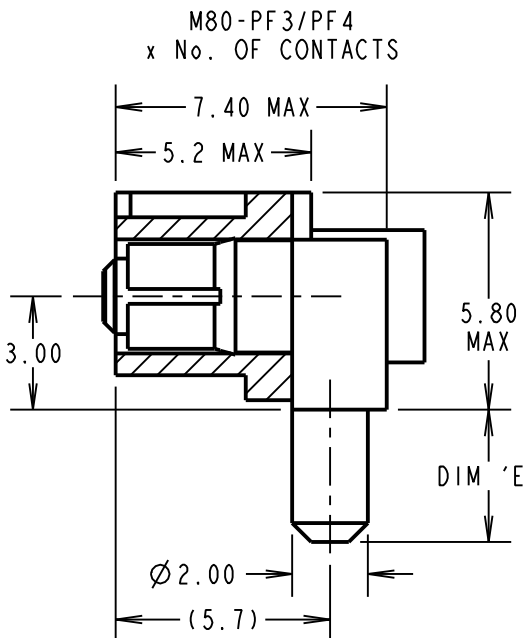
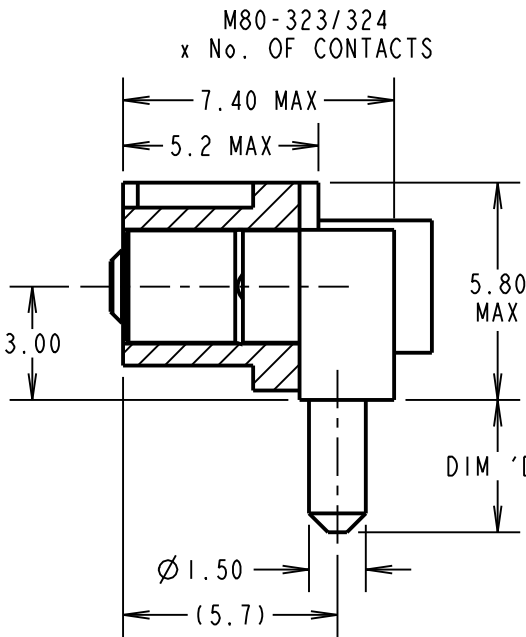
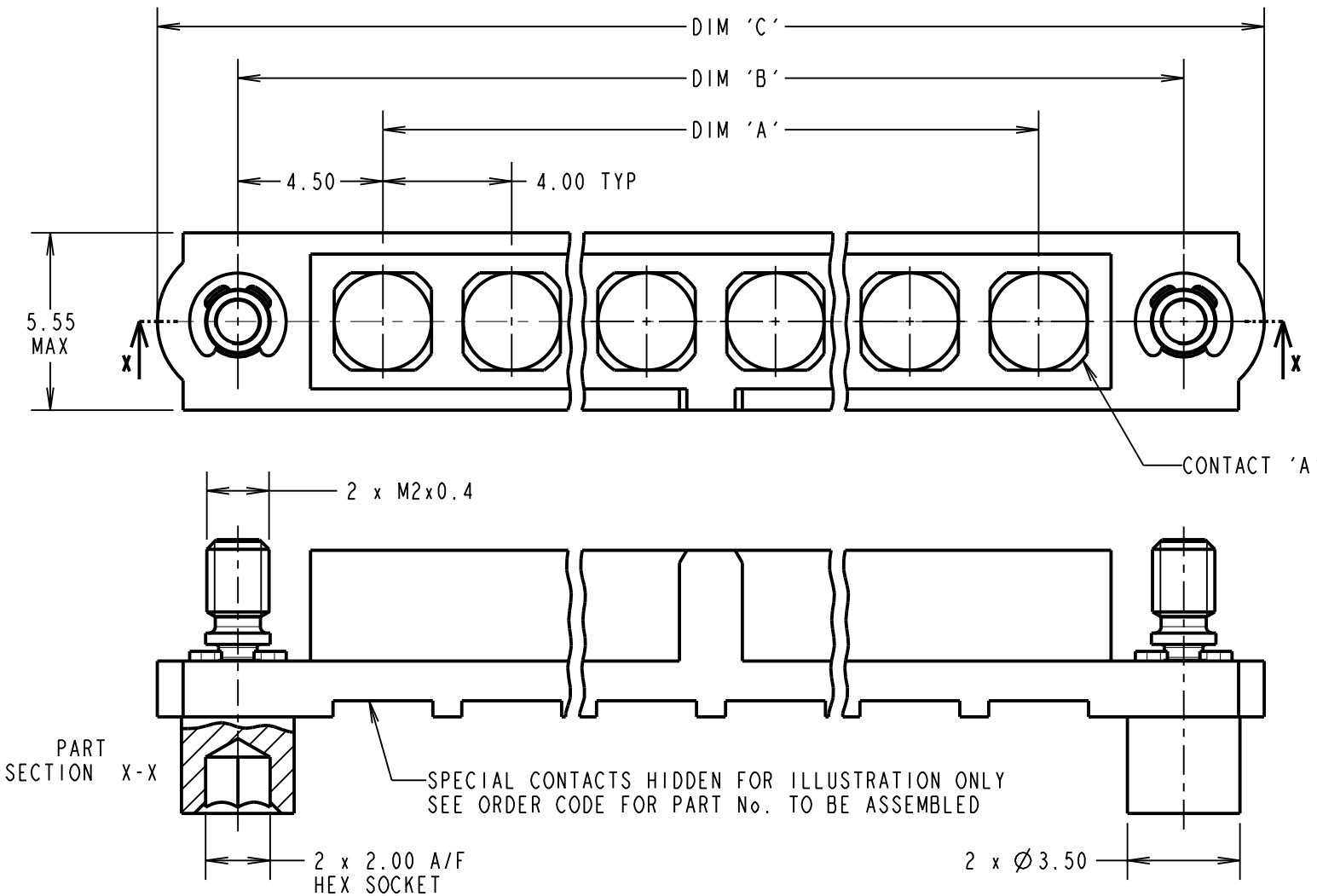
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

## SPECIFICATIONS:

**MATERIAL:**  
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK  
POWER CONTACT: COPPER ALLOY  
COAX CONTACT:  
BODY = COPPER ALLOY  
INNER CONTACT = COPPER ALLOY  
INSULATOR = PTFE  
JACKSCREW, CIRCLIP = STAINLESS STEEL  
**FINISH:**  
POWER CONTACT: GOLD  
COAX CONTACT: BODY, INNER CONTACT = GOLD  
**ELECTRICAL:**  
WORKING VOLTAGE = 800V AC/DC  
VOLTAGE PROOF = 1200V AC/DC  
INSULATION RESISTANCE = 100MΩ MIN  
**POWER CONTACT:**  
CONTACT RESISTANCE = 6mΩ MAX  
CURRENT RATING:  
M80-323/324 = 20A MAX  
M80-PF3/PF4 = 40A MAX  
**MECHANICAL:**  
DURABILITY = 500 OPERATIONS  
**POWER CONTACT:**  
INSERTION FORCE:  
M80-323/324 = 8N MAX  
M80-PF3/PF4 = 15N MAX  
WITHDRAWAL FORCE = 0.5N MIN  
**ENVIRONMENTAL:**  
TEMPERATURE RANGE:  
M80-323/324 = -55°C TO +125°C  
M80-PF3/PF4 = -55°C TO +150°C  
**PACKING:**  
TUBE  
FOR COMPLETE SPECIFICATION SEE COMPONENT  
SPECIFICATION C005XX (LATEST ISSUE)

## PC TAIL HORIZONTAL CONTACTS ONLY



ORDER CODE:  
(FEMALE HORIZONTAL POWER CONTACTS ONLY)

**M80-400000F2-XX-XXX-00-000**

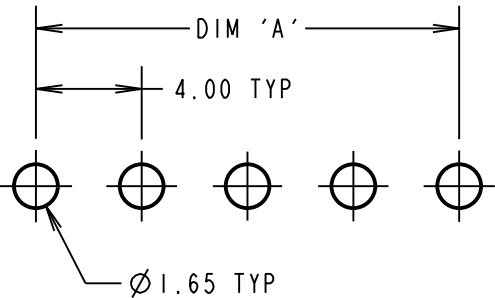
TOTAL No. OF CONTACTS: \_\_\_\_\_  
02 TO 12

FEMALE HORIZONTAL POWER CONTACTS:

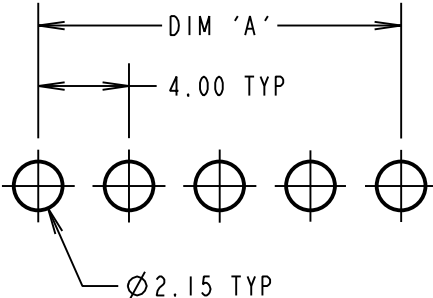
323 = 20A POWER CONTACT PC TAIL 3.5mm M80-323  
324 = 20A POWER CONTACT PC TAIL 5.0mm M80-324  
PF3 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF3  
PF4 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF4

| DIMENSION                                                                                                                                                      | CALCULATION                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| DIM 'A'                                                                                                                                                        | 4 x No. OF CONTACTS - 4.00         |
| DIM 'B'                                                                                                                                                        | 4 x No. OF CONTACTS + 5.00         |
| DIM 'C'                                                                                                                                                        | 4 x No. OF CONTACTS + 10.0         |
| DIM 'D'                                                                                                                                                        | M80-323 = 3.50mm, M80-324 = 5.00mm |
| DIM 'E'                                                                                                                                                        | M80-PF3 = 3.50mm, M80-PF4 = 5.00mm |
| EXAMPLE 1: CONNECTOR WITH 10 POWER CONTACTS 3.5mm,<br>M80-400000F2-10-323-00-000<br>DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm<br>DIM 'D' = 3.50mm |                                    |

RECOMMENDED PCB LAYOUT FOR  
POWER CONTACTS: M80-323/324  
TOLERANCE = +/-0.05



RECOMMENDED PCB LAYOUT FOR  
POWER CONTACTS: M80-PF3/PF4  
TOLERANCE = +/-0.05



|                  |      |          |        |
|------------------|------|----------|--------|
| MGP              | 6    | 04.12.19 | 21540  |
| NAME             | ISS. | DATE     | C/NOTE |
| APPROVED: MGP    |      |          |        |
| CHECKED: RP      |      |          |        |
| DRAWN: C.PENROSE |      |          |        |
| CUSTOMER REF.:   |      |          |        |
| ASSEMBLY DRG:    |      |          |        |

**HARWIN**

www.harwin.com  
technical@harwin.com

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**TOLERANCES**  
X. = ±1mm  
X.X = ±0.50mm  
X.XX = ±0.20mm  
X.XXX = ±0.01mm  
**ANGLES = ±5°**  
**UNLESS STATED**

**MATERIAL:**

SEE ABOVE

**FINISH:**

SEE ABOVE

**S/AREA:**

mm<sup>2</sup>

**TITLE:** DATAMATE MIX-TEK  
FEMALE ASSEMBLY WITH  
HEX SOCKET J/SCREWS

**DRAWING NUMBER:**

**M80-400000F2-XX-XXX-00-000**

SHT  
8 OF 8

# Mouser Electronics

Authorized Distributor

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