Customer Information Sheet

NOT TO SCALE DRAWING No.: M80-4000000F9-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm



MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-0, BLACK COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE JACKSCREW, NUT = STAINLESS STEEL.

FINISH: COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL: COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50Ω $V.S.W.R = 1.05 + (0.04 \times FREQUENCY) GHz MAX$

CONTACT RESISTANCE = $6m\Omega$ MAX

INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @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

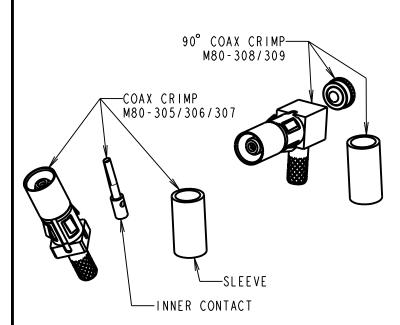
ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

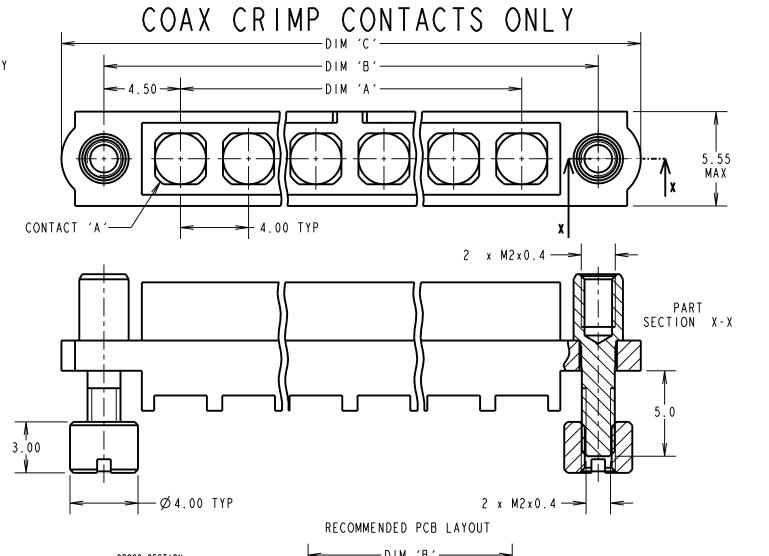
FOR COMPLETE SPECIFICATION SEE COMPONENT

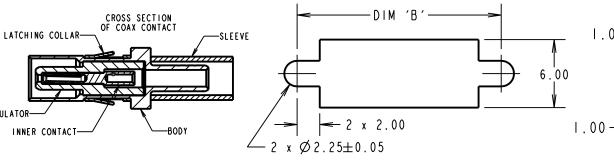
SPECIFICATION COO5XX (LATEST ISSUE)



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 I: CONNECTOR WITH 08 COAX CONTACTS, M80-400000F9-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm





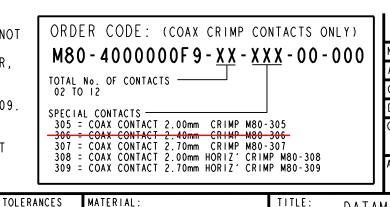
CRIMP/SOLDER NOTES:

I. CONTACTS AND BOARD MOUNT NUTS ARE SUPPLIED WITH CONNECTOR, BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.

2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.
FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-305/306/307/308/309.
COAX CONTACT EXTRACTION TOOL = Z80-290.

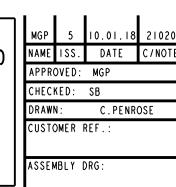
RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.

6. INSTRUCTION SHEETS ARE AVAILABLE.



COAX STRIPPING

DIMENSIONS



STRAIGHT COAX

STRIPPING DIMENSIONS

M80-305/306/307

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

-10.30 MAX-

1.00 →

1.70

(13.4)

7.55

MAX

(9.7)



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X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm $.XXX = \pm 0.01$ mm ANGLES = ±5° OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION UNLESS STATED

1.00

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

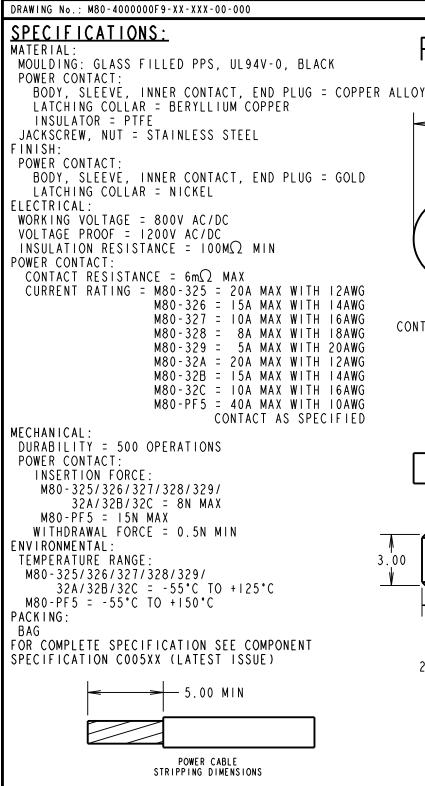
DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

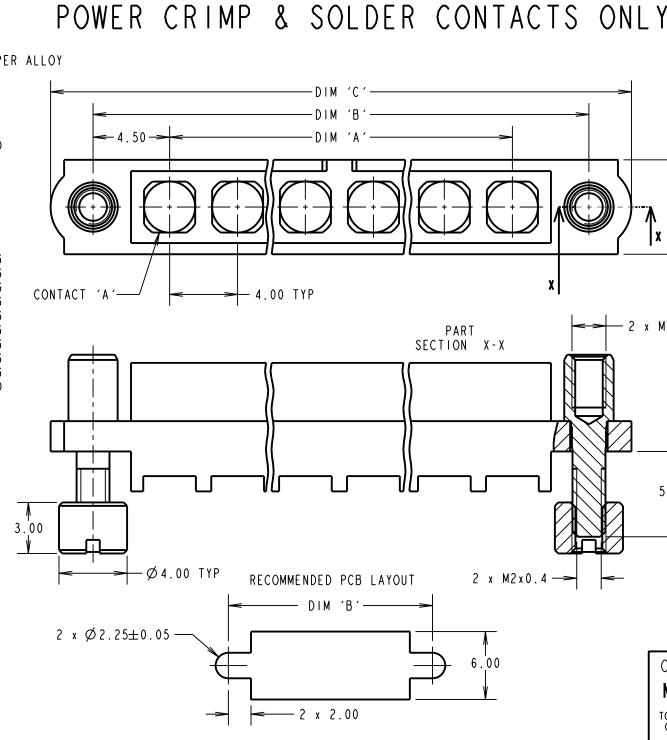
DRAWING NUMBER:

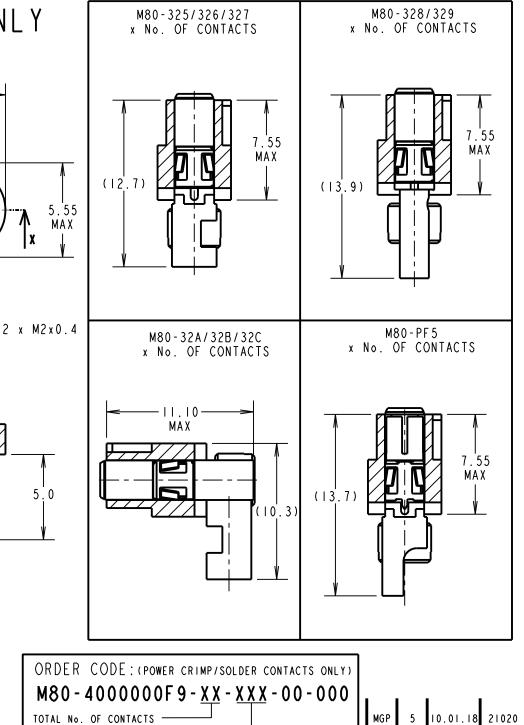
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Customer Information Sheet

NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm







CRIMP/SOLDER NOTES:

- I. CONTACTS AND BOARD MOUNT NUTS ARE SUPPLIED WITH CONNECTOR, BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION
- 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-325/326/327/328/ 329/32A/32B/32C/PM5
- POWER CONTACT EXTRACTION TOOL = Z80-290
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 AND POSITIONER Z80-295

5. INSTRUCTION SHEETS ARE AVAILABLE.

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 2: CONNECTOR WITH 10 POWER CONTACTS, M80-4000000F9-10-325-00-000

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

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TOLERANCES X. = ±1mm $X.X = \pm 0.50 mm$ X.XX = ±0.10mm $.XXX = \pm 0.01$ mm

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

PF5 = POWER CONTACT 10AWG SOLDER M80-PF5

SPECIAL CONTACTS

325 = POWER CONTACT 12AWG SOLDER M80-325

326 = POWER CONTACT 14AWG SOLDER M80-326

327 = POWER CONTACT 16AWG SOLDER M80-327

328 = POWER CONTACT 18AWG SOLDER/CRIMP M80-328

328 = POWER CONTACT 18AWG SOLDER/CRIMP M80-329
329 = POWER CONTACT 20AWG SOLDER/CRIMP M80-329
328 = POWER CONTACT 12AWG HORIZ' SOLDER M80-32A
32B = POWER CONTACT 16AWG HORIZ' SOLDER M80-32B
32C = POWER CONTACT 16AWG HORIZ' SOLDER M80-32C

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH BOARDMOUNT JACKSCREWS

ISS.

CUSTOMER REF.:

ASSEMBLY DRG:

APPROVED:

CHECKED:

DRAWN:

DATE

C.PENROSE

MGP

C/NOTE

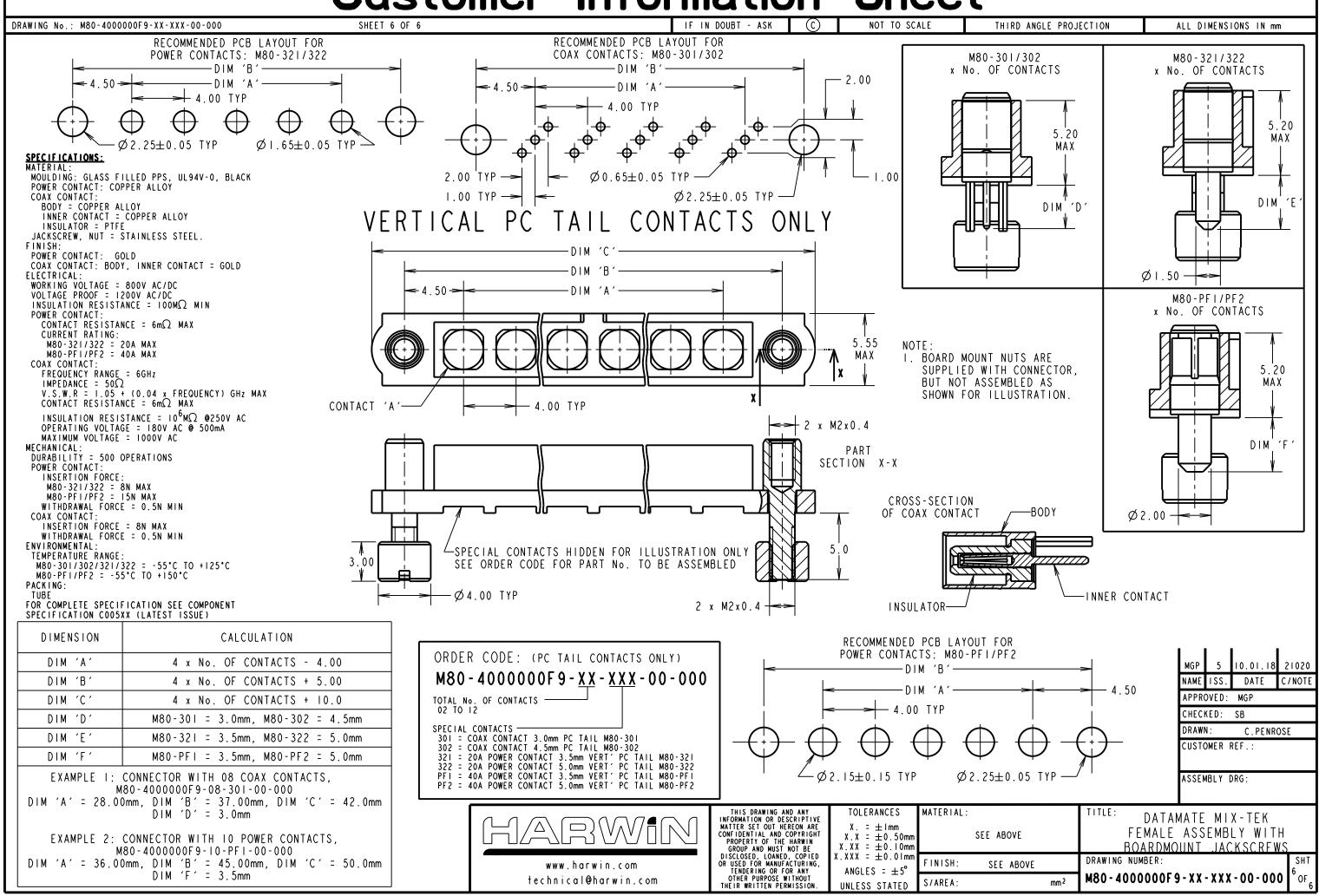
DRAWING NUMBER:

ANGLES = ±5° S/AREA: UNLESS STATED

02 TO 12

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

DIM 'F' = 3.5mm

 $.XXX = \pm 0.01$ mm

ANGLES = ±5°

UNLESS STATED

FINISH:

S/AREA:

SEE ABOVE

DRAWING NUMBER:

M80-400000F9-XX-XXX-00-000 0F,