

Customer Information Sheet

DRAWING No.: M80-5000000MP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: POWER CRIMP & SOLDER CONTACTS ONLY M80-338/339 M80-335/336/337 MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-O, BLACK POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE BOARDMOUNT JACKSCREW. SCREW = STAINLESS STEEL FINISH: POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD - 4 . 50 - LATCHING COLLAR = NICKEL ELECTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC 5.55 INSULATION RESISTANCE = $100M\Omega$ MIN MAX POWER CONTACT: 7.85 7.85 CONTACT RESISTANCE = $6m\Omega$ MAX MAX MAX CURRENT RATING = M80-335 = 20A MAX WITH 12AWG M80-336 = 15A MAX WITH 14AWG (12.7)M80-337 = IOA MAX WITH 16AWG (14.0) -M80-338 = 8A MAX WITH 18AWG 0.50 4.00 TYP CONTACT 'A' M80-339 = 5A MAX WITH 20AWGM80-PM5 M80-PM5 = 40A MAX WITH IOAWG x No. OF CONTACTS CONTACT AS SPECIFIED MECHANICAL: DURABILITY = 500 OPERATIONS SECTION Z-Z POWER CONTACT: INSERTION FORCE M80-335/336/337/338/339 = 8N MAXM80-PM5 = I5N MAX5.60 WITHDRAWAL FORCE = 0.5N MIN MAX ENVIRONMENTAL: TEMPERATURE RANGE: 8.60 M80-335/336/337/338/339 = -55°C TO +125°C MAX $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING: BAG FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) 7.85 MAX0.50 MIN -DIM 'B'-OPTIONAL (14.0) -- 2 x M2x0.4 2.50 MAX TYP -> 5.00 MIN Ø2.25 TYP 12.00 MIN POWER CABLE STRIPPING DIMENSIONS OPTIONAL ORDER CODE: (POWER CRIMP/SOLDER CONTACTS) M80-500000MP-XX-XXX-00-000 NAME ISS. DATE C/NOTE CRIMP/SOLDER NOTES: -RI.50 MAX TYP TOTAL No. OF CONTACTS -APPROVED: MGP I. CONNECTORS ARE SUPPLIED WITH CONTACTS AND SCREWS LOOSE. 02 TO 12 RECOMMENDED PCB OR PANEL MOUNT LAYOUT CHECKED: 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/ TOLERANCE = ± 0.05 mm SPECIAL CONTACTS DRAWN: 337/338/339/PM5 R. ADDE 335 = POWER CONTACT 12AWG SOLDER M80-335 3. COAX & POWER CONTACT EXTRACTION TOOL = Z80-290 336 = POWER CONTACT 14AWG SOLDER M80-336 CUSTOMER REF.: 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-338/339 = DIMENSION CALCULATION 337 = POWER CONTACT 16AWG SOLDER M80-337 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338 Z80-290, AND POSITIONER Z80-295. 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 INSTRUCTION SHEETS ARE AVAILABLE ASSEMBLY DRG: DIM 'A' 4 x No. OF CONTACTS - 4.00 PM5 = POWER CONTACT IOAWG SOLDER M80-PM5 THIS ASSEMBLY CAN ONLY MATE WITH FP FEMALE FIXINGS. DIM 'B 4 x No. OF CONTACTS + 5.00 TOLERANCES MATERIAL: THIS DRAWING AND ANY THIS DRAWING AND ANY
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OTHER DURDOSE WILLDUIT DATAMATE MIX-TEK DIM 'C' 4 x No. OF CONTACTS + 10.0 X. = ±1mm PC TAIL MALE ASSY WITH $X.X = \pm 0.50$ mm SEE ABOVE EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, BOARD MOUNT J/SCREWS $X.XX = \pm 0.20$ mm M80-5000000MP-I0-335-00-000 $.XXX = \pm 0.01$ mm

www.harwin.com

technical@harwin.com

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

DRAWING NUMBER:

M80-5000000MP-XX-XXX-00-000 OF

FINISH:

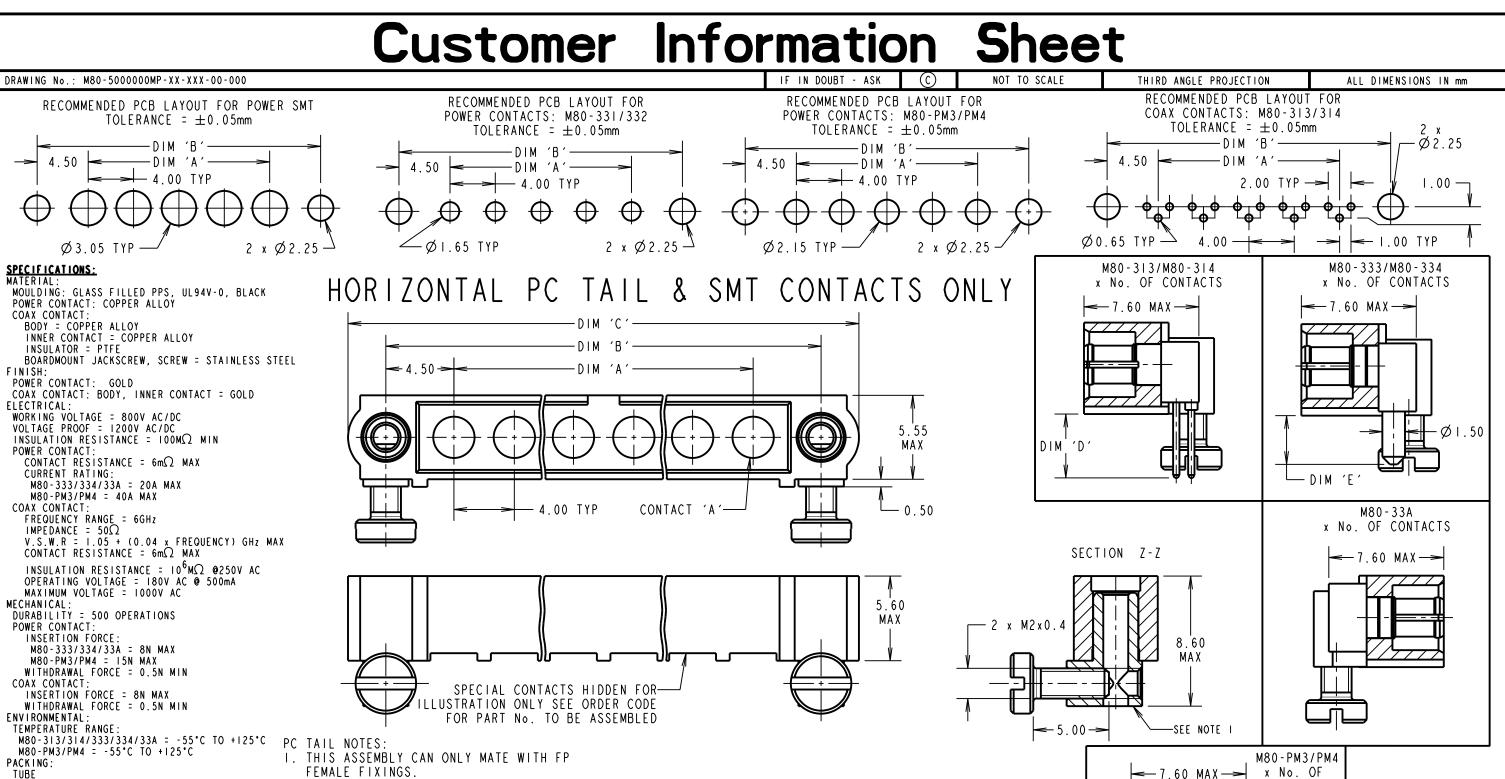
S/AREA:

ANGLES = ±5°

UNLESS STATED

OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

SEE ABOVE



FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

FEMALE FIXINGS.

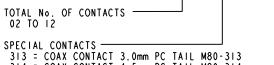
2. CONNECTORS ARE SUPPLIED WITH SCREWS LOOSE.

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'	M80-313 = 3.0mm, M80-314 = 4.5mm
DIM 'E'	M80-333 = 3.5 mm, M80-334 = 5.0 mm
DIM 'F'	M80-PM3 = 3.5mm, M80-PM4 = 5.0mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000MP-10-333-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

DIM 'E' = 3.5mm

ORDER CODE: (PC TAIL CONTACTS ONLY) M80-500000MP-XX-XXX-00-000



SPECIAL CONTACTS

313 = COAX CONTACT 3.0mm PC TAIL M80-313

314 = COAX CONTACT 4.5mm PC TAIL M80-314

333 = 20A POWER CONTACT 3.5mm HORZ' PC TAIL M80-333

334 = 20A POWER CONTACT 5.0mm HORZ' PC TAIL M80-334

PM3 = 40A POWER CONTACT 3.5mm HORZ' PC TAIL M80-PM3

PM4 = 40A POWER CONTACT 5.0mm HORZ' PC TAIL M80-PM4

33A = POWER CONTACT HORZ' SMT M80-33A

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

TOLERANCES

VIEW OF COAX CONTACT

BODY-

INSULATOR

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

DIM 'F'

DATAMATE MIX-TEK DRAWING NUMBER:

-Ø2.00

CONTACTS

ISS.

APPROVED: MGP

CUSTOMER REF.:

ASSEMBLY DRG:

CHECKED:

DRAWN:

DATE

R. ADDE

C/NOTE

BOARD MOUNT J/SCREWS

PC TAIL MALE ASSY WITH M80-5000000MP-XX-XXX-00-000 0F