Customer Information Sheet

DRAWING No.: M80-5000000MD-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS:

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

COAX CONTACT:

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

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

FINISH: COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL

ELECTRICAL:

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:**

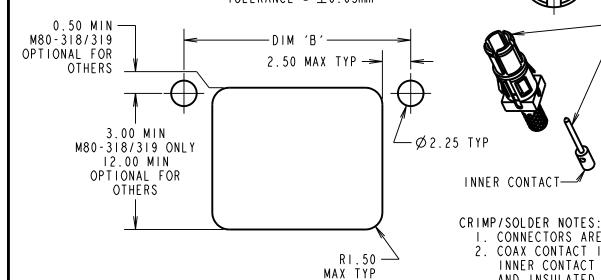
TEMPERATURE RANGE = -55°C TO +125°C

PACKING: BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION COO5XX (LATEST ISSUE)

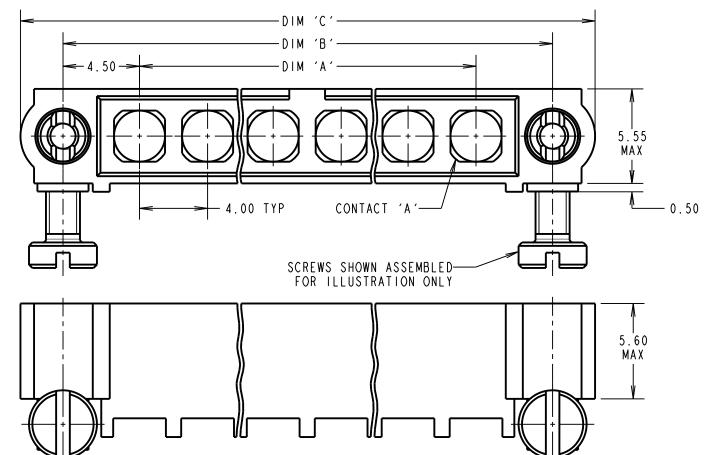
RECOMMENDED PCB OR PANEL MOUNT LAYOUT TOLERANCE = ± 0.05 mm

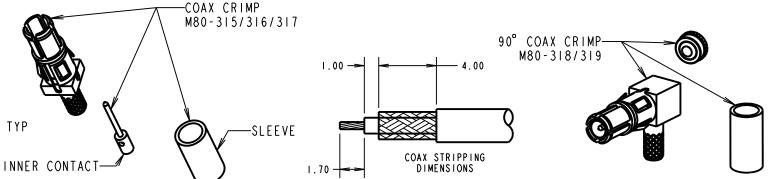


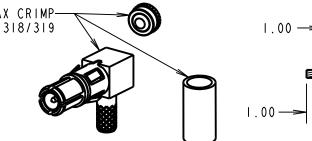
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.0

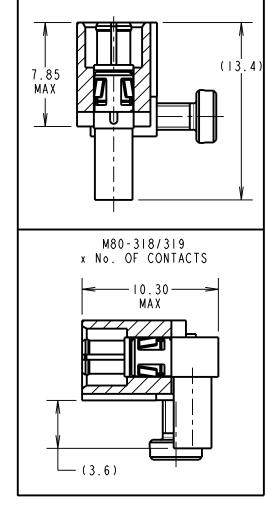
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-500000MD-08-315-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm











M80-315/316/317

x No. OF CONTACTS



M80-500000MD-XX-XXX-00-000

TOTAL No. OF CONTACTS -02 TO 12

S/AREA:

19.12.19 21540 DATE C/NOTE APPROVED: MGP CHECKED: SB DRAWN: S.BENNETT CUSTOMER REF.: ASSEMBLY DRG:

COAX STRIPPING

DIMENSIONS

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2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR,

INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE

3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/316/317/318/319

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

I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.

COAX CONTACT EXTRACTION TOOL = Z80-290.

FOR SLEEVE = Z80-293.

6. INSTRUCTION SHEETS ARE AVAILABLE.

AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.

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TENDERING OR FOR ANY
OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION.

UNLESS STATED

TOLERANCES X. = ±1mm X.X = ±0.50mm $X.XX = \pm 0.20$ mm $.XXX = \pm 0.01$ mm FINISH: ANGLES = ±5°

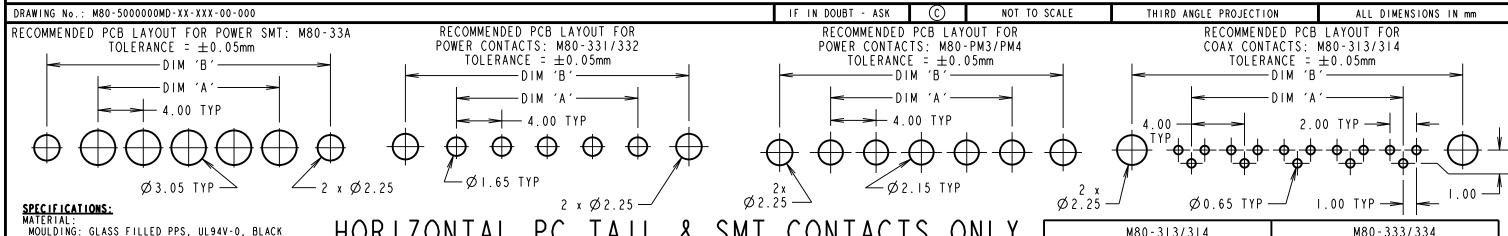
MATERIAL: SEE ABOVE SEE ABOVE TITLE: DATAMATE MIX-TEK MALE ASSEMBLY

DRAWING NUMBER:

M80-5000000MD-XX-XXX-00-000 4 OF

Customer Information Sheet NOT TO SCALE DRAWING No.: M80-5000000MD-XX-XXX-00-000 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-0, BLACK POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE FINISH: 7.85 7.85 POWER CONTACT: MAX MAX BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL ELECTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC (14.0)(12.7)INSULATION RESISTANCE = $100M\Omega$ MIN CONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING = M80-335 = 20A MAX WITH 12AWG M80-336 = 15A MAX WITH 14AWG M80-337 = IOA MAX WITH I6AWG-4.50 → M80-338 = 8A MAX WITH 18AWG M80-PM5 M80-339 = 5A MAX WITH 20AWGx No. OF CONTACTS M80-PM5 = 40A MAX WITH IOAWGCONTACT AS SPECIFIED 5.55 MECHANICAL: MAXDURABILITY = 500 OPERATIONS INSERTION FORCE: 7.85 M80-335/336/337/338/339 = 8N MAXMAX M80-PM5 = 15N MAXWITHDRAWAL FORCE = 0.5N MIN 4.00 TYP CONTACT 'A 0.50 ENVIRONMENTAL: TEMPERATURE RANGE M80-335/336/337/338/339 = -55°C TO +125°C (14.0) $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING: SCREWS SHOWN ASSEMBLED BAG FOR ILLUSTRATION ONLY FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) RECOMMENDED PCB OR PANEL MOUNT LAYOUT 5.60 TOLERANCE = ± 0.05 mm - 5.00 MIN MAX0.50 MIN −DIM ′B′ OPTIONAL 2.50 MAX TYP -POWER CABLE STRIPPING DIMENSIONS ORDER CODE: (POWER CRIMP/SOLDER CONTACTS) 12.00 MIN OPTIONAL 19.12.19 21540 M80-500000MD-XX-XXX-00-000 NAME DATE C/NOTE Ø2.25 TYP CRIMP/SOLDER NOTES: TOTAL No. OF CONTACTS -APPROVED: MGP I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. 02 TO 12 CHECKED 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS RI.50 MAX TYP SPECIAL CONTACTS DRAWN: S.BENNETT M80-335/336/337/338/339/PM5. 335 = POWER CONTACT 12AWG SOLDER M80-335 3. POWER CONTACT EXTRACTION TOOL = Z80-290. 336 = POWER CONTACT 14AWG SOLDER M80-336 CUSTOMER REF.: DIMENSION CALCULATION 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 337 = POWER CONTACT 16AWG SOLDER M80-337 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338 M80-338/339 = Z80-294 AND POSITIONER Z80-295. 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 ASSEMBLY DRG: DIM 'A' 4 x No. OF CONTACTS - 4.00 5. INSTRUCTION SHEETS ARE AVAILABLE. PM5 = POWER CONTACT IOAWG SOLDER M80-PM5 DIM 'B 4 x No. OF CONTACTS + 5.00 THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE TOLERANCES MATERIAL: TITLE: DIM 'C' 4 x No. OF CONTACTS + 10.0 DATAMATE MIX-TEK X. = ±1mm MATIER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY X.X = ±0.50mm SEE ABOVE MALE ASSEMBLY EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, $X.XX = \pm 0.20$ mm M80-500000MD-10-335-00-000 .XXX = ±0.01mm DRAWING NUMBER: FINISH: SEE ABOVE www.harwin.com DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm ANGLES = ±5° M80-5000000MD-XX-XXX-00-000 OF, OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION technical@harwin.com S/AREA: UNLESS STATED

Customer Information Sheet



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

COAX CONTACT: BODY = COPPER ALLOY INNER CONTACT = COPPER ALLOY
INSULATOR = PTFE FINISH:

POWER CONTACT: GOLD
COAX CONTACT: BODY, INNER CONTACT = GOLD ELECTRICAL:

POWER CONTACT: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT RATING: M80-333/334/33A = 20A MAX M80-PM3/PM4 = 40A MAX COAX CONTACT:

FREQUENCY RANGE = 6GHzIMPEDANCE = 50Ω V.S.W.R = 1.05 + (0.04 x 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

POWER CONTACT: INSERTION FORCE: M80-333/334/33A = 8N MAX

M80-PM3/PM4 = I5N MAX WITHDRAWAL FORCE = 0.5N MIN COAX CONTACT:

INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN

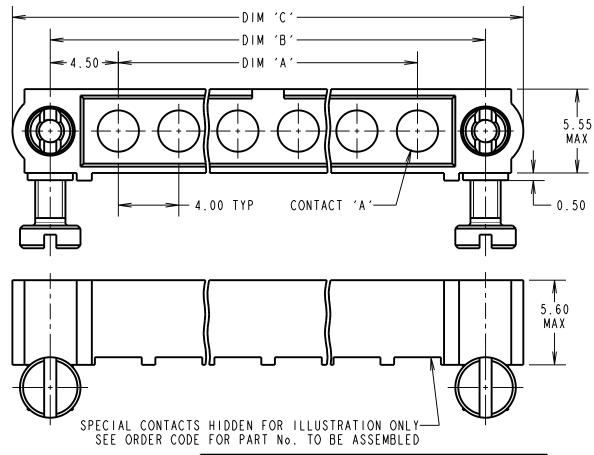
ENVIRONMENTAL: TEMPERATURE RANGE:

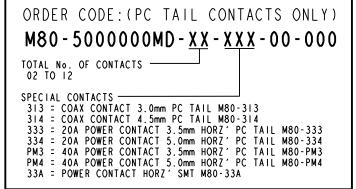
M80-313/314/333/334/33A = -55°C TO +125°C M80-PM3/PM4 = -55°C TO +150°C

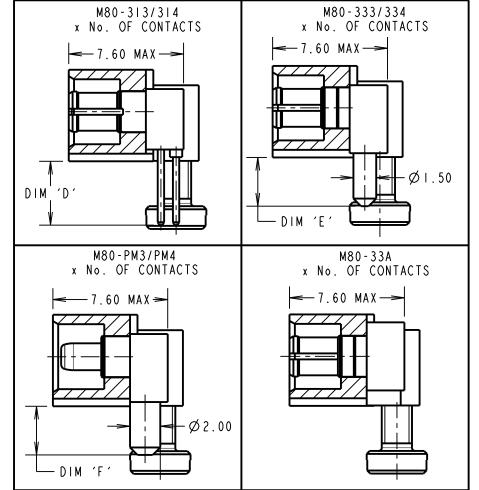
PACKING:

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

& SMT CONTACTS ONLY HORIZONTAL PC







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 = 3.5mm, M80-334 = 5.0mm
DIM 'F'	M80-PM3 = 3.5mm, M80-PM4 = 5.0mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. M80-500000MD-10-333-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm DIM 'E' = 3.0mm



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

UNLESS STATED

INSULATOR

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

VIEW OF COAX CONTACT

DATE C/NOTE APPROVED: MGP CHECKED: DRAWN: S.BENNETT CUSTOMER REF.: ASSEMBLY DRG:

19.12.19 21540

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY

DRAWING NUMBER:

M80-5000000MD-XX-XXX-00-000 OF,