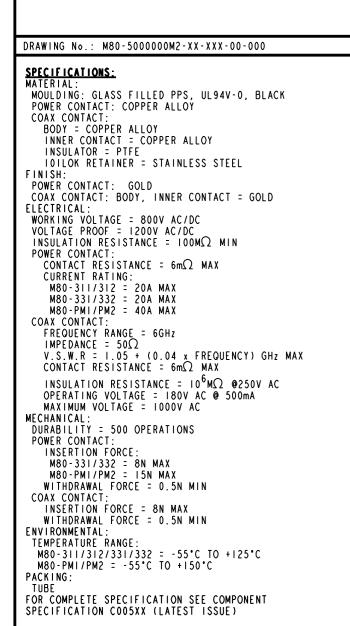
Customer Information DRAWING No.: M80-5000000M2-XX-XXX-00-000 NOT TO SCALE IF IN DOUBT - ASK THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: COAX CRIMP/SOLDER CONTACTS ONLY MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, BLACK M80-315/316/317 COAX CONTACT: x No. OF CONTACTS BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE ÷4.50 → JACKSCREW. NUT = STAINLESS STEEL FINISH: -4.00 TYP 7.85 COAX CONTACT MAXBODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR: = NICKEL ELECTRICAL: (13.4)INSULATION RESISTANCE = $100M\Omega$ MIN 5.55 COAX CONTACT: FREQUENCY RANGE = 6GHz IMPEDANCE = 50Ω $V.S.W.R = 1.05 + (0.04 \times FREQUENCY) GHz MAX$ CONTACT RESISTANCE = $6m\Omega$ MAX CONTACT 'A' INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC 0.50 OPERATING VOLTAGE = 180V AC @ 500mA $2 \times M2 \times 0.4$ MAXIMUM VOLTAGE = 1000V AC MECHANICAL: DURABILITY = 500 OPERATIONS M80-318/319 COAX CONTACT: x No. OF CONTACTS INSERTION FORCE = 8N MAX 5.60 WITHDRAWAL FORCE = 0.5N MIN PART MAX**ENVIRONMENTAL:** SECTION TEMPERATURE RANGE = -55°C TO +125°C X - X PACKING: BAG FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) 3.00 10.30 SPECIAL CONTACTS HIDDEN MAX-DIM 'B'-FOR ILLUSTRATION ONLY SEE ORDER CODE FOR PART $2 \times M2 \times 0.4$ NUMBER TO BE ASSEMBLED Ø4.00 TYP Ø2.20 TYP 6.00 -COAX CRIMP M80-315/316/317 (9.7)--90° COAX CRIMP M80-318/319 RECOMMENDED PCB CUT OUT -2.00 TYP ORDER CODE: (COAX CRIMP/SOLDER CONTACTS) -SLEEVE INNER CONTACT M80-5000000M2-XX-XXX-00-000 COAX STRIPPING 11.08.15 12997 TOTAL No. OF CONTACTS -NOTES: I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. 02 TO 12 NAME ISS DATE C/NOTE COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, SPECIAL CONTACTS (CRIMP) 315 = COAX CONTACT 2.0mm CRIMP M80-315 316 = COAX CONTACT 2.4mm CRIMP M80-316 317 = COAX CONTACT 2.7mm CRIMP M80-317 318 = COAX CONTACT 2.0mm HORZ' CRIMP M80-318 319 = COAX CONTACT 2.7mm HORZ' CRIMP M80-319 APPROVED: M. PERREN INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE. CHECKED: S.BENNETT 3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/316/317/318/319. DRAWN: C.PENROSE 4. CONTACT EXTRACTION TOOL = Z80-290. CUSTOMER REF.: 5. RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET COAX STRIPPING DIMENSIONS DIMENSION CALCULATION FOR SLEEVE = Z80-293. ASSEMBLY DRG: 6. INSTRUCTION SHEETS ARE AVAILABLE. 4 x No. OF CONTACTS - 4.00 DIM 'A' THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER 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 OTHER PURPOSE WITHOUT THE IN WRITTEN PERMISSION MATERIAL: TOLERANCES DATAMATE MIX-TEK DIM 'B' 4 x No. OF CONTACTS + 5.00 X. = ±1mm MALE ASSEMBLY X.X = ±0.50mm SEE ABOVE DIM 'C' 4 x No. OF CONTACTS + 10.00 WITH BOARD MOUNT J-SCREW X.XX = ±0.10mm EXAMPLE: CONNECTOR WITH 08 COAX CONTACTS. $X.XXX = \pm 0.01mn$ DRAWING NUMBER: FINISH: SEE ABOVE M80-5000000M2-08-315-00-000 www.harwin.com ANGLES = ±5° DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm M80-5000000M2-XX-XXX-00-000 40F. technical@harwin.com S/AREA: UNLESS STATED THEIR WRITTEN PERMISSION

Customer Information DRAWING No.: M80-5000000M2-XX-XXX-00-000 NOT TO SCALE IF IN DOUBT - ASK THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: MATERIAL: M80-335/336/337 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK M80-PM5 POWER CRIMP/SOLDER CONTACTS ONLY x No. OF CONTACTS POWER CONTACT: x No. OF CONTACTS BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE IOILOK RETAINER = STAINLESS STEEL FINISH: POWER CONTACT: 7.85 BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD MAX MAXLATCHING COLLAR = NICKEL - 4.00 TYP **ELECTRICAL:** (12.7)WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC (14.0)INSULATION RESISTANCE = $100M\Omega$ MIN POWER CONTACT: 5.55 CONTACT RESISTANCE = $6m\Omega$ MAX MAXCURRENT RATING = M80-335 = 20A MAX WITH I2AWG M80-336 = 15A MAX WITH 14AWG M80-337 = 10A MAX WITH 16AWG M80-338 = 8A MAX WITH 18AWG M80-339 = 5A MAX WITH 20AWGCONTACT 'A' M80-338/339 M80-PM5 = 40A MAX WITH IOAWG 0.50 x No. OF, CONTACTS CONTACT AS SPECIFIED $2 \times M2 \times 0.4$ MECHANICAL: DURABILITY = 500 OPERATIONS POWER CONTACT: INSERTION FORCE: M80-335/336/337/338/339 = 8N MAX7.85 M80-PM5 = 15N MAX 5.60 MAX WITHDRAWAL FORCE = 0.5N MIN MAX PART **ENVIRONMENTAL:** (14.0)TEMPERATURE RANGE: SECTION M80-335/336/337/338/339 = -55°C TO +125°C X - X $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING: 3.00 FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY SEE ORDER CODE FOR PART Ø4.00 TYP NUMBER TO BE ASSEMBLED $2 \times M2 \times 0.4$ 5.00 MIN ORDER CODE: (POWER CRIMP/SOLDER CONTACTS) M80-5000000M2-XX-XXX-00-000 -DIM 'B'— TOTAL No. OF CONTACTS -POWER CABLE 02 TO 12 Ø2.20 TYP STRIPPING DIMENSIONS 11.08.15 12997 SPECIAL CONTACTS (CRIMP) DATE C/NOTE 335 = POWER CONTACT 12AWG SOLDER M80-335 336 = POWER CONTACT 14AWG SOLDER M80-336 6.00 APPROVED: M. PERREN I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. POWER CONTACT 16AWG SOLDER M80-337 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS: CHECKED: S.BENNETT 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 M80-335/336/337/338/339/PF5. DRAWN: PM5 = POWER CONTACT IOAWG SOLDER M80-PM5 C. PENROSE CONTACT EXTRACTION TOOL = Z80-290. CUSTOMER REF.: 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 2.00 TYP AND POSITIONER 780-295 DIMENSION CALCULATION RECOMMENDED PCB CUT OUT 5. INSTRUCTION SHEETS ARE AVAILABLE. ASSEMBLY DRG: DIM 'A' 4 x No. OF CONTACTS - 4.00 THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER 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 OTHER PURPOSE WITHOUT THE IN WRITTEN PERMISSION DIM 'B' 4 x No. OF CONTACTS + 5.00 MATERIAL: TOLERANCES DATAMATE MIX-TEK X. = ±1mm DIM 'C' 4 x No. OF CONTACTS + 10.00 MALE ASSEMBLY X.X = ±0.50mm SEE ABOVE WITH BOARD MOUNT J-SCREW EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, X.XX = ±0.10mm $X.XXX = \pm 0.01mn$ M80-5000000M2-I0-335-00-000 DRAWING NUMBER: FINISH: www.harwin.com SEE ABOVE DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm ANGLES = ±5° M80-5000000M2-XX-XXX-00-000 OF technical@harwin.com S/AREA: UNLESS STATED THEIR WRITTEN PERMISSION

Customer Information Sheet IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION

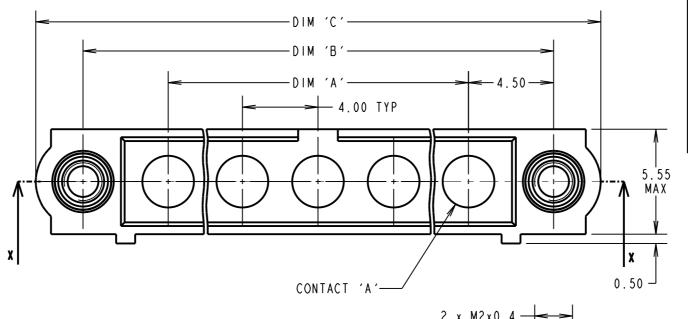


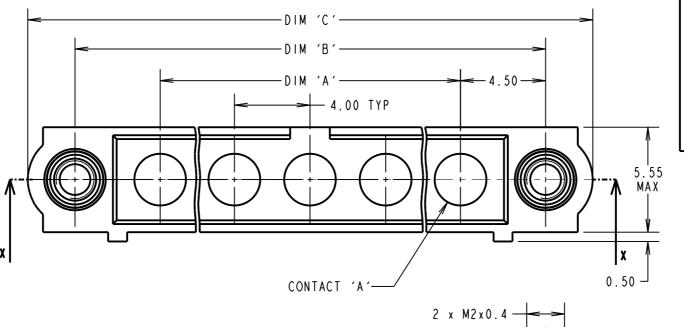
ORDER CODE: (COAX PC TAIL CONTACTS ONLY) M80-5000000M2-XX-XXX-00-000 TOTAL No. OF CONTACTS -02 TO 12 SPECIAL CONTACTS (PC TAIL) 311= COAX CONTACT 3.0mm VERT' PC TAIL M80-311 312 = COAX CONTACT 4.5mm VERT' PC TAIL M80-312 331 = 20A POWER CONTACT 3.5mm VERT' PC TAIL M80-331 332 = 20A POWER CONTACT 5.0mm VERT' PC TAIL M80-332 PMI = 40A POWER CONTACT 3.5mm VERT' PC TAIL M80-PMI PM2 = 40A POWER CONTACT 5.0mm VERT' PC TAIL M80-PM2

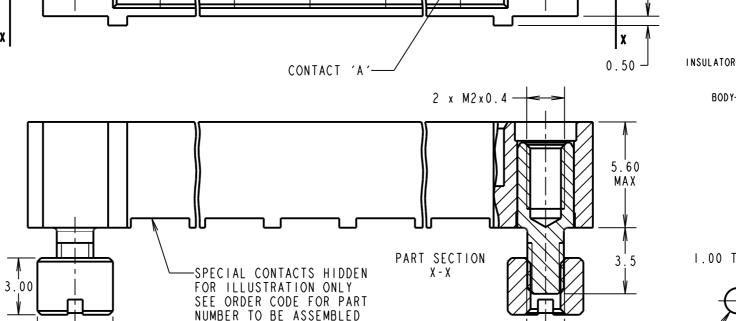
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-311 = 3.0mm, M80-312 = 4.5mm
DIM 'E'	M80-331 = 3.5mm, M80-332 = 5.0mm
DIM 'F'	M80-PM1 = 3.5mm, M80-PM2 = 5.0mm
EXAMPLE: CONNECTOR WITH 10 VERTICAL CONTACTS,	

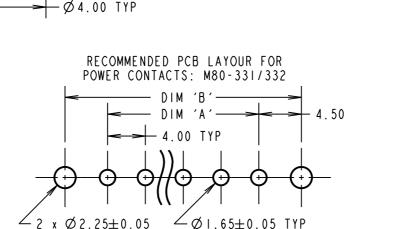
M80-500000M2-10-332-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM'D' = 5.0mm

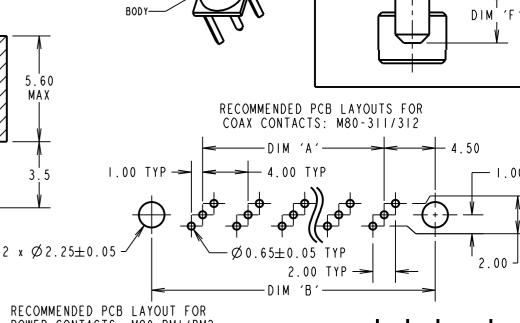
VERTICAL PC TAIL CONTACTS ONLY











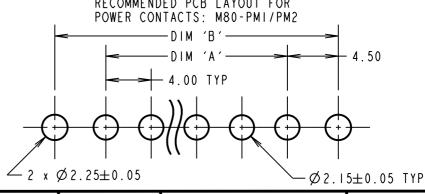
M80-331/332

x No. OF CONTACTS

MAX

DIM

VIEW OF COAX CONTACT



S/AREA:

NAME ISS DATE C/NOTE APPROVED: M.PERREN CHECKED: S.BENNETT DRAWN: C. PENROSE CUSTOMER REF.: ASSEMBLY DRG:

11.08.15 12997

ALL DIMENSIONS IN mm

M80-PMI/PM2

x No. OF CONTACTS

5.60

MAX

5.60

MAX

DIM

M80-311/312

x No. OF CONTACTS

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technical@harwin.com

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TOLERANCES X. = ±1mm X.X = ±0.50mn X.XX = ±0.10mm $X.XXX = \pm 0.01mn$ ANGLES = ±5°

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE TITLE: DATAMATE MIX-TEK MALE ASSEMBLY WITH BOARD MOUNT J-SCREW

DRAWING NUMBER:

M80-5000000M2-XX-XXX-00-000 60F.