Customer Information Sheet DRAWING No.: M80-5000000MP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm COAX CRIMP CONTACTS ONLY SPECIFICATIONS: M80-315/316/317 MATERIAL: x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK COAX CONTACT: BODY, SLEEVE, INNER CONTACT, **--**4.50 → END PLUG = COPPER ALLOY LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE 7.85 BOARDMOUNT JACKSCREW, SCREW = STAINLESS STEEL MAX 5.55 FINISH: MAX COAX CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL ELECTRICAL: WORKING VOLTAGE = 800V AC/DC (13.4)VOLTAGE PROOF = 1200V AC/DC 4.00 TYP CONTACT 'A 0.50 INSULATION RESISTANCE = $100M\Omega$ MIN COAX CONTACT: FREQUENCY RANGE = 6GHz IMPEDANCE = 50Ω SECTION 7-7 M80-318/319 $V.S.W.R = 1.05 + (0.04 \times FREQUENCY) GHz MAX$ x No. OF CONTACTS CONTACT RESISTANCE = $6m\Omega$ MAX INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC -10.30-OPERATING VOLTAGE = 180V AC @ 500mA 5.60 MAXMAXIMUM VOLTAGE = 1000V AC MAX MECHANICAL: DURABILITY = 500 OPERATIONS COAX CONTACT: INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN FNVIRONMENTAL: TEMPERATURE RANGE = -55°C TO +125°C PACKING: FOR COMPLETE SPECIFICATION SEE COMPONENT -COAX CRIMP (3,6)SPECIFICATION COO5XX (LATEST ISSUE) M80-315/316/317 2 x M2x0.4 0.50 MIN ·90° COAX CRIMP -DIM 'B M80-318/319 M80-318/319 OPTIONAL FOR 2.50 MAX TYP → OTHERS Ø2.25 TYP COAX STRIPPING 90° COAX STRIPPING 3.00 MIN M80-318/319 ONLY -SLEEVE 12.00 MIN -INNER CONTACT OPTIONAL FOR OTHERS CRIMP/SOLDER NOTES: ORDER CODE: (COAX CRIMP CONTACTS) I. CONNECTORS ARE SUPPLIED WITH CONTACTS AND SCREWS LOOSE. 23, 12, 19 21540 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, M80-500000MP-XX-XXX-00-000 NAME ISS. DATE CN/CO INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE R1.50 APPROVED MGP AND INSULATED END PLUG ASSEMBLY ARE SEPARATE. TOTAL No. OF CONTACTS MAX TYP RECOMMENDED PCB OR PANEL MOUNT LAYOUT CHECKED: 3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/316/317/318/319. 02 TO 12 TOLERANCE = ± 0.05 mm COAX CONTACT EXTRACTION TOOL = Z80-290. DRAWN: R. ADDE SPECIAL CONTACTS 315 = COAX CONTACT 2.00mm CRIMP M80-315 RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 CUSTOMER REF.: WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET DIMENSION CALCULATION 317 = COAX CONTACT 2.70mm CRIMP M80-317 318 = COAX CONTACT 2.00mm HORIZ' CRIMP M80-318 319 = COAX CONTACT 2.70mm HORIZ' CRIMP M80-319 FOR SLEEVE = Z80-293. 6. INSTRUCTION SHEETS ARE AVAILABLE. ASSEMBLY DRG: DIM 'A' 4 x No. OF CONTACTS - 4.00 7. THIS ASSEMBLY CAN ONLY MATE WITH FP FEMALE FIXINGS. DIM 'B' 4 x No. OF CONTACTS + 5.00 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 TOLERANCES MATERIAL: DATAMATE MIX-TEK 4 x No. OF CONTACTS + 10.0 DIM 'C' X. = ±1mm PC TAIL MALE ASSY WITH X.X = ±0.50mr SEE ABOVE BOARD MOUNT J/SCREWS EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, $X.XX = \pm 0.20mn$ M80-5000000MP-08-315-00-000 $X.XXX = \pm 0.01$ mm DRAWING NUMBER: FINISH: SEE ABOVE

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ANGLES = ±5°

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S/AREA:

M80-5000000MP-XX-XXX-00-000 1 OF

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

Customer Information Sheet

DRAWING No.: M80-5000000MP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm <u>SPECIFICATIONS:</u> 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 INSULATION RESISTANCE = $100M\Omega$ MIN MAX POWER CONTACT: 7.85 7.85 CONTACT RESISTANCE = $6m\Omega$ MAX MAXCURRENT RATING = M80-335 = 20A MAX WITH 12AWG M80-336 = 15A MAX WITH 14AWG (12.7)M80-337 = IOA MAX WITH I6AWG (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 = 15N 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: FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) - 7.85 MAX0.50 MIN OPTIONAL (14.0) - $2 \times M2 \times 0.4$ 2.50 MAX TYP → 5.00 MIN Ø 2.25 TYP 12.00 MIN POWER CABLE STRIPPING DIMENSIONS OPTIONAL ORDER CODE: (POWER CRIMP/SOLDER CONTACTS) 23,12,19 21540 M80-500000MP-XX-XXX-00-000 NAME ISS. DATE CN/CO 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 COAX & POWER CONTACT EXTRACTION TOOL = Z80-290 336 = POWER CONTACT 14AWG SOLDER M80-336 CUSTOMER REF.: DIMENSION CALCULATION 4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-338/339 = 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 DIRPORSE WILTOUT DATAMATE MIX-TEK DIM 'C' 4 x No. OF CONTACTS + 10.0 X. = ±1mm PC TAIL MALE ASSY WITH SEE ABOVE X.X = ±0.50mr BOARD MOUNT J/SCREWS EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, $X.XX = \pm 0.20mn$

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.XXX = ±0.01mm

ANGLES = ±5°

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FINISH:

S/AREA:

SEE ABOVE

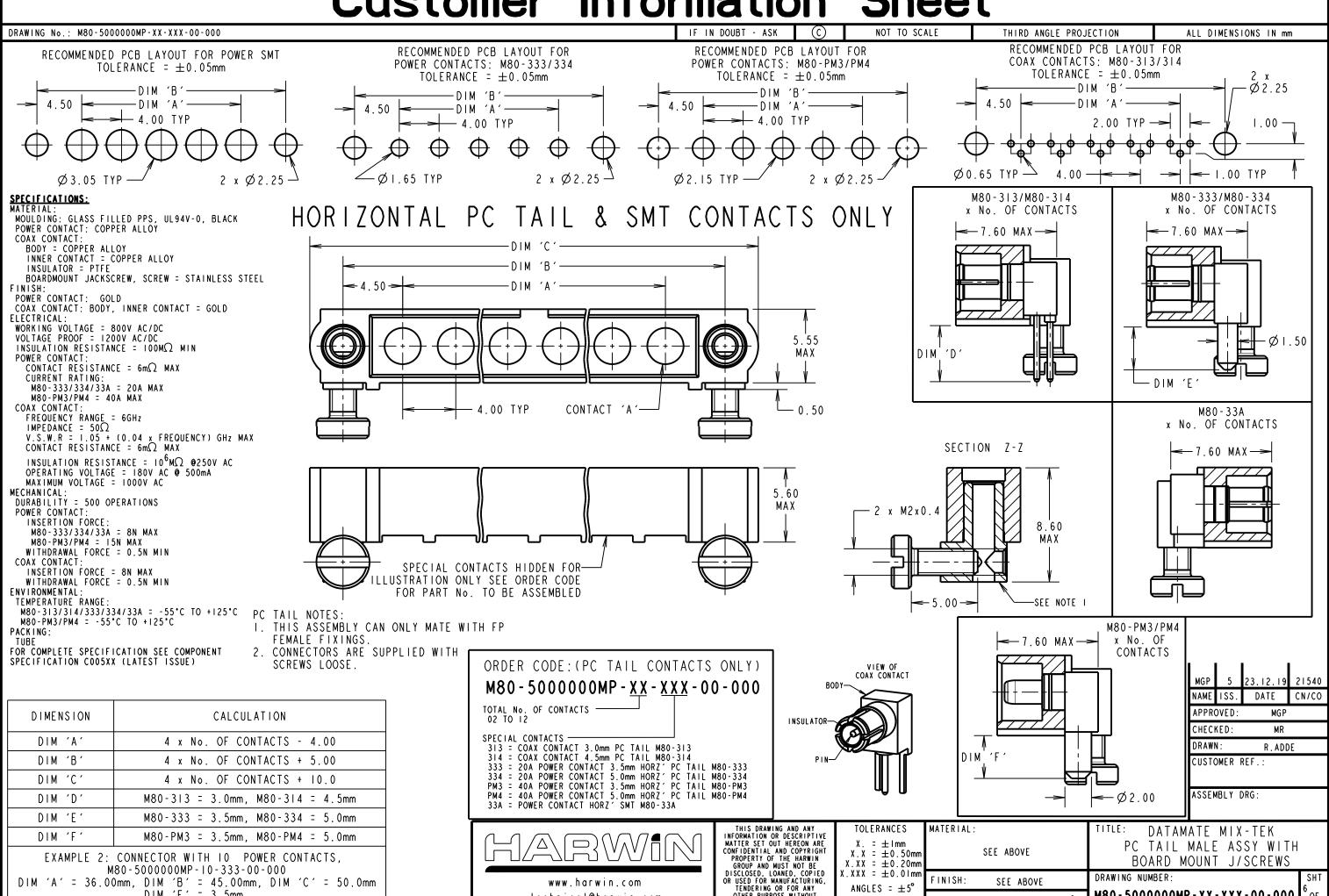
DRAWING NUMBER:

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

M80-5000000MP-I0-335-00-000

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

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DIM 'E' = 3.5mm

ANGLES = ±5°

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