Customer Information

DRAWING No.: M80-4000000FP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: COAX CRIMP CONTACTS ONLY M80-305/306/307 MATERIAL: x No. OF CONTACTS 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. -4.50 → FINISH: 7.55 COAX CONTACT: MAXBODY, SLEEVE, INNER CONTACT, END PLUG = GOLD LATCHING COLLAR = NICKEL (13.4)5.55 ELECTRICAL: MAXWORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN COAX CONTACT: FREQUENCY RANGE = 6GHz CONTACT 'A IMPEDANCE = 50Ω $V.S.W.R = 1.05 + (0.04 \times FREQUENCY) GHz MAX$ M80-308/309 CONTACT RESISTANCE = $6m\Omega$ MAX x No. OF CONTACTS INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @250V AC $2 \times \emptyset 1.50 \pm 0.05$ OPERATING VOLTAGE = 180V AC @ 500mA SEE NOTE 7 -10.30 MAX-MAXIMUM VOLTAGE = 1000V AC MECHANICAL: 7.90 MAX DURABILITY = 500 OPERATIONS SEE NOTE 7 COAX CONTACT: INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN ENVIRONMENTAL: (9.7)TEMPERATURE RANGE = -55°C TO +125°C PACKING: 5.00 BAG 3.00 FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) $2 \times M2 \times 0.4$ Ø4.00 TYP RECOMMENDED PCB LAYOUT -90° COAX CRIMP -COAX CRIMP 1.00 -> M80-308/309 -DIM 'B'-M80-305/306/307 - 2 x 2.00 LATCHING COLLAR COAX STRIPPING DIMENSIONS 90° COAX STRIPPING DIMENSIONS −2 x Ø2.20 MIN CRIMP/SOLDER NOTES: ORDER CODE: (COAX CRIMP CONTACTS ONLY) MSP 08.05.15 12566 CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. NAME ISS. DATE C/NOTI M80-400000FP-XX-XXX-00-000 COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, SLEEVE INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE APPROVED: M.PERREN TOTAL No. OF CONTACTS 02 TO 12 -INNER CONTACT AND INSULATED END PLUG ASSEMBLY ARE SEPARATE. CHECKED: S.BENNETT 3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-305/306/307/308/309. DRAWN: C.PENROSE COAX CONTACT EXTRACTION TOOL = Z80-290. SPECIAL CONTACTS RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 CUSTOMER REF.: DIMENSION CALCULATION WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293. DIM 'A' 4 x No. OF CONTACTS - 4.00 ASSEMBLY DRG: INSTRUCTION SHEETS ARE AVAILABLE. 7. THIS ASSEMBLY CAN ONLY MATE WITH MP MALE FIXINGS DIM 'B' 4 x No. OF CONTACTS + 5.00 THIS DRAWING AND ANY
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DISCLOSED, LOANED, COPIED
OR USED FOR MANUFACTURING,
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OTHER PURPOSE WITHOUT MATERIAL: TOLERANCES DATAMATE MIX-TEK DIM 'C' 4 x No. OF CONTACTS + 10.00 X. = ±1mm FEMALE ASSEMBLY WITH X.X = ±0.50mm SEE ABOVE EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS, BOARDMOUNT JACKSCREWS X.XX = ±0.10mm M80-400000FP-08-305-00-000 $X.XXX = \pm 0.01$ mm DRAWING NUMBER: FINISH: SEE ABOVE www.harwin.com DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm

technical@harwin.com

ANGLES = ±5°

UNLESS STATED

THEIR WRITTEN PERMISSION

S/AREA:

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Customer Information Sheet

DRAWING No.: M80-4000000FP-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: POWER CRIMP & SOLDER CONTACTS ONLY M80-325/326/327 M80-328/329 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 JACKSCREW, NUT = STAINLESS STEEL. FINISH: POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD 7.55 7.55 LATCHING COLLAR = NICKEL MAXMAXELECTRICAL: WORKING VOLTAGE = 800V AC/DC (12.7)(13.9)VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = $100M\Omega$ MIN 5.55 POWER CONTACT: MAXCONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING = M80-325 = 20A MAX WITH I2AWG M80-326 = 15A MAX WITH 14AWG M80-327 = IOA MAX WITH I6AWG M80-328 = 8A MAX WITH 18AWG 4.00 TYP -CONTACT 'A' M80-329 = 5A MAX WITH 20AWGM80-32A = 20A MAX WITH 12AWG M80-PF5 M80-32A/32B/32C M80-32B = 15A MAX WITH 14AWG x No. OF CONTACTS x No. OF CONTACTS M80-32C = IOA MAX WITH I6AWG M80-PF5 = 40A MAX WITH IOAWG $2 \times 1.50 \pm 0.05$ CONTACT AS SPECIFIED SEE NOTE 6 MECHANICAL: DURABILITY = 500 OPERATIONS 11 10 POWER CONTACT: 7 90 MAX MAX INSERTION FORCE: SFF NOTF 6 M80-325/326/327/328/329/ 7.55 32A/32B/32C = 8N MAXMAX M80-PF5 = I5N MAX(13.7)WITHDRAWAL FORCE = 0.5N MIN 10.3) **ENVIRONMENTAL:** TEMPERATURE RANGE: M80-325/326/327/328/329/ 5.00 3.00 $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$ $M80-PF5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING: RECOMMENDED PCB LAYOUT $\mathsf{B}\mathsf{A}\mathsf{G}$ Ø4.00 TYP $2 \times M2 \times 0.4$ FOR COMPLETE SPECIFICATION SEE COMPONENT -DIM 'B'-SPECIFICATION COO5XX (LATEST ISSUE) 2 x 2.00 5.00 MIN ORDER CODE: (POWER CRIMP/SOLDER CONTACTS ONLY) M80-400000FP-XX-XXX-00-000 6.00 2 x Ø 2.20 MIN TOTAL No. OF CONTACTS 08.05.15 12566 02 TO 12 POWER CABLE NAME ISS DATE C/NOTE STRIPPING DIMENSIONS 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 CRIMP/SOLDER NOTES: APPROVED: M.PERREN I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE CHECKED: S.BENNETT FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-325/326/327/328/ DRAWN: 329/32A/32B/32C/PM5 C.PENROSE 329 = POWER CONTACT 20AWG SOLDER/CRIMP M80-329
32A = POWER CONTACT 12AWG HORIZ' SOLDER M80-32A POWER CONTACT EXTRACTION TOOL = Z80-290 CUSTOMER REF.: DIMENSION CALCULATION RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 32B = POWER CONTACT 16AWG HORIZ' SOLDER M80-32B 32C = POWER CONTACT 16AWG HORIZ' SOLDER M80-32C AND POSITIONER Z80-295. DIM 'A' 4 x No. OF CONTACTS - 4.00 PF5 = POWER CONTACT IDAWG SOLDER M80-PF5 ASSEMBLY DRG: INSTRUCTION SHEETS ARE AVAILABLE. 6. THIS ASSEMBLY CAN ONLY MATE WITH MP MALE FIXINGS. DIM 'B' 4 x No. OF CONTACTS + 5.00 THIS DRAWING AND ANY
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IENDERING OR FOR ANY
OTHER PURPOSE WITHOUT MATERIAL: TOLERANCES DATAMATE MIX-TEK DIM 'C' 4 x No. OF CONTACTS + 10.00 X. = ±1mm FEMALE ASSEMBLY WITH X.X = ±0.50mm SEE ABOVE EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, BOARDMOUNT JACKSCREWS X.XX = ±0.10mm M80-5000000FP-I0-325-00-000 .XXX = ±0.01mm DRAWING NUMBER: FINISH: SEE ABOVE www.harwin.com DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm

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ANGLES = ±5°

UNLESS STATED

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S/AREA:

M80-400000FP-XX-XXX-00-000|

