Customer Information Sheet

DRAWING No.: M80-5000000MA-XX-XXX-00-000 IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: M80-315/316/317 M80-318/319 MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-O, BLACK COAX & POWER CONTACT: BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY 4.50 ⇒ LATCHING COLLAR = BERYLLIUM COPPER 4.00 TYP 7.85 INSULATOR = PTFE 7.85 MAXJACKSCREW: STAINLESS STEEL MAX FINISH: COAX & POWER CONTACT: (13.4)5.55 BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD MAX LATCHING COLLAR = NICKEL FIFCTRICAL: WORKING VOLTAGE = 120V AC/DC VOLTAGE PROOF = 360V AC/DC -CONTACT 'A ·(9.7)— INSULATION RESISTANCE = $100M\Omega$ MIN 0.50 POWER CONTACT: 2 x M2x0.4-6g CONTACT RESISTANCE $6m\Omega$ MAX ALL COAX CONTACTS ONLY ALL HORIZ' COAX CONTACTS ONLY CURRENT RATING = M80-335 = 20A MAX WITH I2AWG M80-338/339 M80-335/336/337 M80-336 = 15A MAX WITH 14AWG PART SECTION x No. OF CONTACTS x No. OF CONTACTS M80-337 = IOA MAX WITH I6AWG M80-338 = 8A MAX WITH 18AWG M80-339 = 5A MAX WITH 20AWGCONTACT AS SPECIFIED COAX CONTACT: 7.85 7.85 FREQUENCY RANGE = 6GHz MAX MAX IMPEDANCE = 50 Ω V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX(12.7)(14.0)CONTACT RESISTANCE 6 m Ω MAX INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @250V AC OPERATING VOLTAGE = 180V AC @ 500mA MAXIMUM VOLTAGE = 1000V AC -POWER SOLDER COAX CRIMP MECHANICAL: M80-335/336/337 M80-315/316/317 DURABILITY = 500 OPERATIONS -90° COAX CRIMP COAX & POWER CONTACT: M80-318/319 ALL POWER CONTACTS ONLY INSERTION FORCE = 5N MAX ALL POWER CONTACTS ONLY WITHDRAWAL FORCE = 0.5N MIN -POWER SOLDER/CRIMP **ENVIRONMENTAL:** M80-338/339 TEMPERATURE RANGE = -55°C TO +125°C PACKING: BAG FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE) -SLEEVE 1.00 --INNER CONTACT NOTES: ORDER CODE: (CRIMP/SOLDER CONTACTS) I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE M80-500000MA-XX-XXX-00-000 2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE COAX STRIPPING 07.12.09 TOTAL No. OF CONTACTS -1.70 AND INSULATED END PLUG ASSEMBLY ARE SEPARATE. 02 TO 12 FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/316/317/318/319. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/337/338/339 DATE C/NOTE DIMENSION CALCULATION SPECIAL CONTACTS (CRIMP)-APPROVED: R. ADDE 315 = COAX CONTACT 2.0mm CRIMP M80-315 316 = COAX CONTACT 2.4mm CRIMP M80-316 COAX & POWER CONTACT EXTRACTION TOOL = Z80-290 CHECKED: DIM 'A' 4 x No. OF CONTACTS - 4.00 M.G.PLESTED POWER CONTACT WIRE, STRIP BY 5.00mm MINIUMUM. 317 = COAX CONTACT 2.7mm CRIMP M80-317 318 = COAX CONTACT 2.0mm HORZ' CRIMP M80-318 DRAWN: RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-338/339 = Z80-294 R.ADDE DIM 'B' 4 x No. OF CONTACTS + 5.00 319 = COAX CONTACT 2.7mm HORZ' CRIMP M80-319 AND POSITIONER Z80-295 CUSTOMER REF.: DIM 'C' 335 = POWER CONTACT 12AWG SOLDER 4 x No. OF CONTACTS + 10.00 RECOMMENDED HAND CRIMP TOOL FOR INNER CONTACT = Z80-292 336 = POWER CONTACT 14AWG SOLDER WITH POSITIONER 780-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET 337 = POWER CONTACT IGAWG SOLDER EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS. ASSEMBLY DRG: 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338 FOR SLEEVE = Z80-293. M80-500000MA-08-315-00-000 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339 INSTRUCTION SHEETS ARE AVAILABLE. DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm DIM 'D' = 3.0mm THIS DRAWING AND ANY TOLERANCES MATERIAL: 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
THEIR WRITTEN PERMISSION. JACKSCREW DATAMATE X. = ±1mm MIXED TECHNOLOGY SEE ABOVE EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. $X.X = \pm 0.25 mr$ MALE ASSEMBLY X.XX = ±0.10mm M80-5000000MA-10-335-00-000 HARWIN Asia

mis@harwin.com.sg

X.XXX = ±0.01mm

UNLESS STATED

FINISH:

S/AREA:

SEE ABOVE

DRAWING NUMBER:

M80-500000MA-XX-XXX-00-000 of

HARWIN USA

mis@harwin.com

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm

DIM 'E' = 3.5mm

TEL: 603 893 5376 TEL: 023 9231 4545 TEL: +65 6 779 4909 FAX: 603 893 5396 FAX: 023 9231 4590 FAX: +65 6 779 3868

mis@harwin.co.uk

Customer Information Sheet

NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm DRAWING No.: M80-5000000MA-XX-XXX-00-000 SHEET 4 OF 4

SPECIFICATIONS:

MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK

COAX & POWER CONTACT: BODY, INNER CONTACT, = COPPER ALLOY

INSULATOR = PTFE

JACKSCREW: STAINLESS STEEL

FINISH:

COAX & POWER CONTACT:

BODY, INNER CONTACT, = GOLD

ELECTRICAL:

WORKING VOLTAGE = 120V AC/DC

VOLTAGE PROOF = 360V AC/DC

INSULATION RESISTANCE = $100 \text{M}\Omega$ MIN

POWER CONTACT: CONTACT RESISTANCE $6m\Omega$ MAX

CURRENT RATING = 20A MAX

COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50 Ω

V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX

CONTACT RESISTANCE 6 m Ω MAX

INSULATION RESISTANCE = $10^{6} \text{M}\Omega$ @250V AC

OPERATING VOLTAGE = 180V AC @ 500mA MAXIMUM VOLTAGE = 1000V AC

MECHANICAL:

DURABILITY = 500 OPERATIONS

COAX & POWER CONTACT:

INSERTION FORCE = 5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING: TUBE

FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION COOSXX (LATEST ISSUE)

I. FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE I IN TABLE.

2. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS

ORDER CODE SEE EXAMPLE 2 IN TABLE.

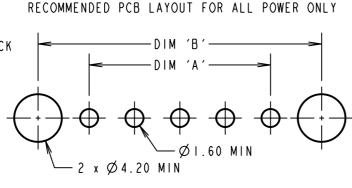
DIMENSION CALCULATION DIM 'A' 4 x No. OF CONTACTS - 4.00 DIM 'B' 4 x No. OF CONTACTS + 5.00 DIM 'C' 4 x No. OF CONTACTS + 10.00 DIM 'D' M80-311 = 3.0mm, M80-312 = 4.5mm DIM 'E' M80-313 = 3.0mm, M80-314 = 4.5mm DIM 'F' M80-331 = 3.5mm, M80-332 = 5.0mm DIM 'G' M80-333 = 3.0mm, M80-334 = 4.5mm

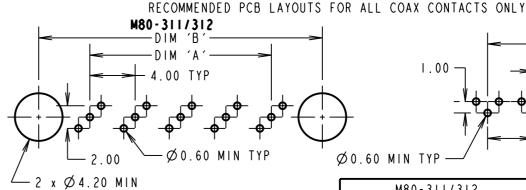
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-500000MA-08-313-00-000

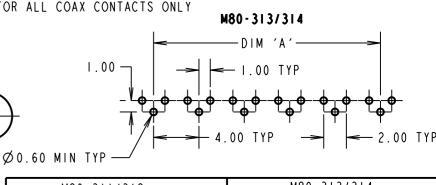
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm DIM'D' = 3.0mm

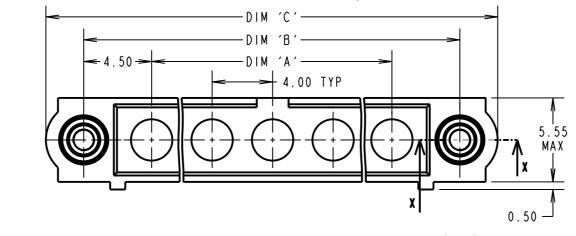
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. M80-500000MA-10-334-00-000

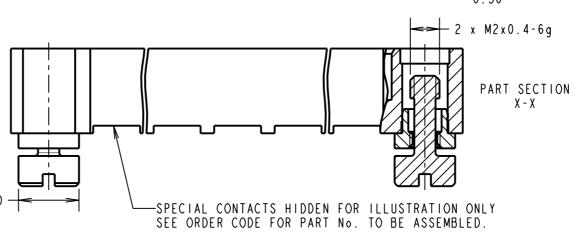
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'E' = 3.5mm

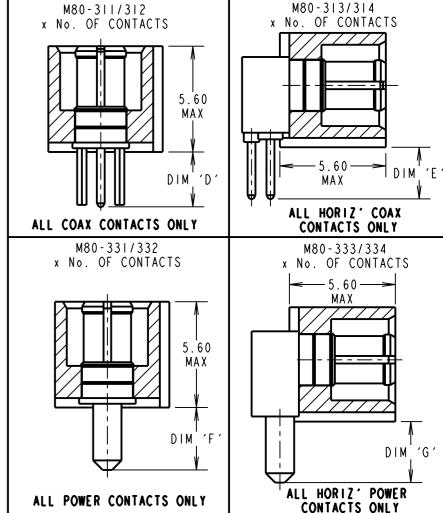


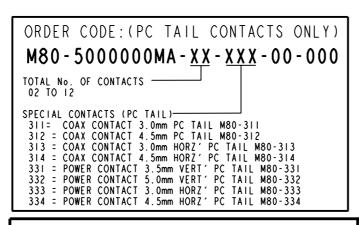


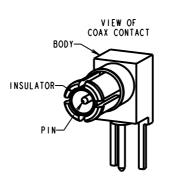


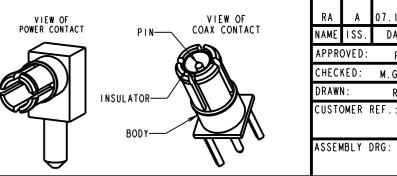












VIEW OF	RA	Α	07.12.09	
PIN— COAX CONTACT	NAME	ISS.	DATE	C/NOTE
	APPROVED: R.ADDE			
	CHECKED: M.G.PLESTED			
TOR—/ TIME Y	DRAWN: R.ADDE			
DDY	CUSTOMER REF.:			
10	ASSEM	ABLY (RG:	

HARWIN

HARWIN USA HARWIN Europe (UK) HARWIN Asia TEL: 603 893 5376 TEL: 023 9231 4545 TEL: +65 6 779 4909 FAX: 603 893 5396 FAX: 023 9231 4590 FAX: +65 6 779 3868 mis@harwin.com.sg mis@harwin.com mis@harwin.co.uk

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
THEIR WRITTEN PERMISSION.

UNLESS STATED

TOLERANCES MATERIAL: X. = ±1mm $X.X = \pm 0.25 mr$ X.XX = ±0.10mm X.XXX = ±0.01mm FINISH:

S/AREA:

SEE ABOVE SEE ABOVE

JACKSCREW DATAMATE MIXED TECHNOLOGY MALE ASSEMBLY DRAWING NUMBER:

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