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-O, 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

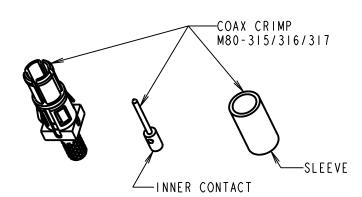
ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING: BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION COO5XX (LATEST ISSUE)

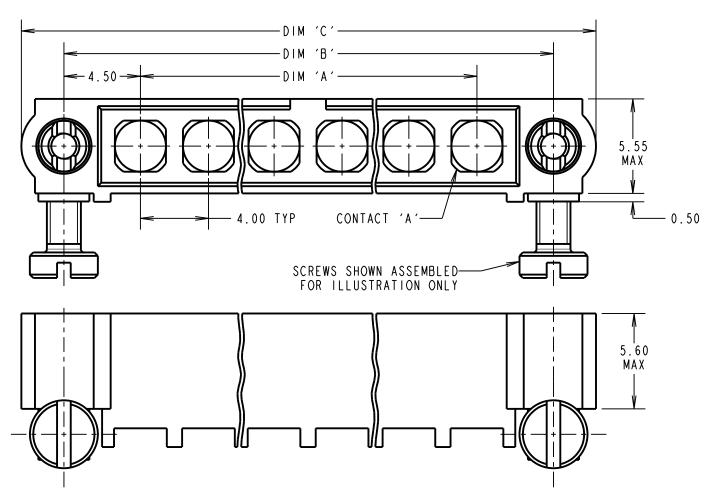


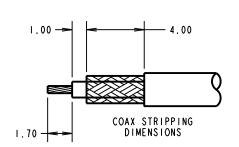
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00

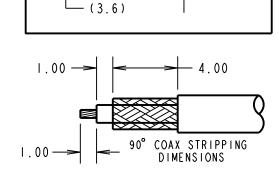
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-500000MD-08-315-00-000

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

COAX CRIMP CONTACTS ONLY







M80-315/316/317

x No. OF CONTACTS

M80-318/319

x No. OF CONTACTS

10.30

MAX

7.85

MAX

(13.4)

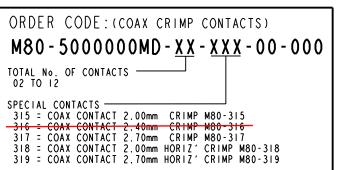


- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
 COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.

90° COAX CRIMP M80-318/319

- 3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/3+6/317/318/319.
- 4. COAX CONTACT EXTRACTION TOOL = Z80-290
- 5. RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.
- 6. INSTRUCTION SHEETS ARE AVAILABLE.

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SB	_	12.07.17		
NAME	188.	DATE	C/NOTE	
APPROVED: S.BENNETT			TT	
CHEC	KED:	M.PLESTED		
DRAWN:		S.BENNETT		
CUST	OMER I	REF.:		
ASSEI	MBLY (ORG:		

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TOLERANCES X. = ±1mm X.X = ±0.25mr $X.XX = \pm 0.10$ mm $X.XXX = \pm 0.01$ mm ANGLES = ±5°

UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY

DRAWING NUMBER:

M80-500000MD-XX-XXX-00-000 0F,

Customer Information Sheet

CONTACT 'A

SCREWS SHOWN ASSEMBLED

FOR ILLUSTRATION ONLY

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

POWER CRIMP & SOLDER CONTACTS ONLY

SPECIFICATIONS:

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

POWER CONTACT:

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

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

FINISH:

POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC

VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = 100M Ω MIN

CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT 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 20AWGM80-PM5 = 40A MAX WITH IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

INSERTION FORCE:

M80-335/336/337/338/339 = 8N MAX

M80-PM5 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE:

DIMENSION

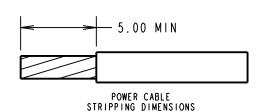
M80-335/336/337/338/339 = -55°C TO +125°C

 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$

PACKING:

BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)



CALCULATION



-4.50

CRIMP/SOLDER NOTES: CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE

4.00 TYP

FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/337/338/339/PM5

POWER CONTACT EXTRACTION TOOL = Z80-290

RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294

AND POSITIONER Z80-295. 5. INSTRUCTION SHEETS ARE AVAILABLE.

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 EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,

M80-500000MD-10-335-00-000

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

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

02 TO 12

5.60 MAX

> MATERIAL: SEE ABOVE SEE ABOVE

335 = POWER CONTACT 12AWG SOLDER M80-335

336 = POWER CONTACT 14AWG SOLDER M80-336

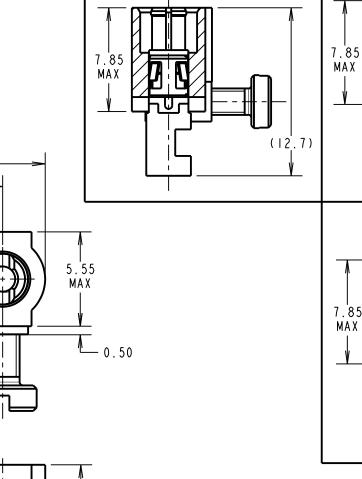
337 = POWER CONTACT 16AWG SOLDER M80-337

PM5 = POWER CONTACT IOAWG SOLDER M80-PM5

339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339

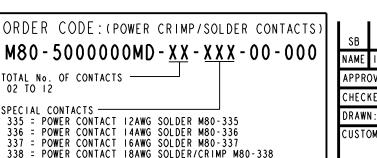
TITLE: DATAMATE MIX-TEK MALE ASSEMBLY

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



M80-335/336/337

x No. OF CONTACTS



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		NAME	188.	DATE	C/NC	
		APPRO	OVED:	S.BENNETT		
CHECKED: M		M.PLES	STED			
		DRAWI	۷:	S.BEN	NETT	

CUSTOMER REF.:

M80-338/339

x No. OF CONTACTS

M80-PM5

x No. OF CONTACTS

(14.0)

(14.0)

ASSEMBLY DRG:



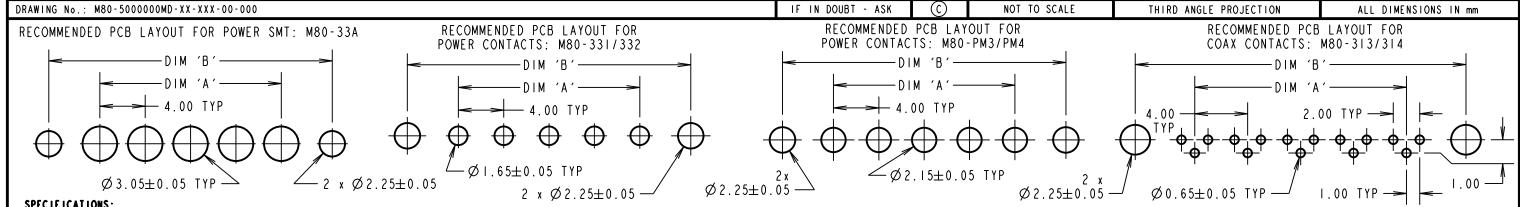
ANGLES = ±5°

FINISH: S/AREA:

TOTAL No. OF CONTACTS -

DRAWING NUMBER:

Customer Information Sheet



SPECIFICATIONS:

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 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN COAX CONTACT: INSERTION FORCE = 8N MAX

WITHDRAWAL FORCE = 0.5N MIN ENVIRONMENTAL:

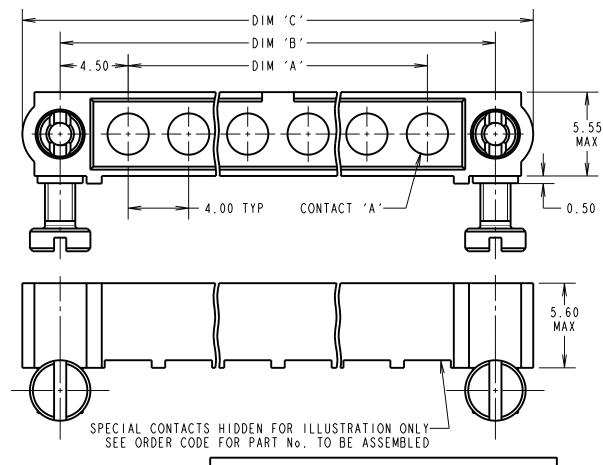
TEMPERATURE RANGE:

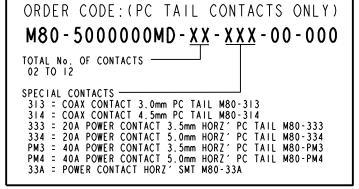
M80-313/314/333/334/33A = -55°C TO +125°C M80-PM3/PM4 = -55°C TO +150°C

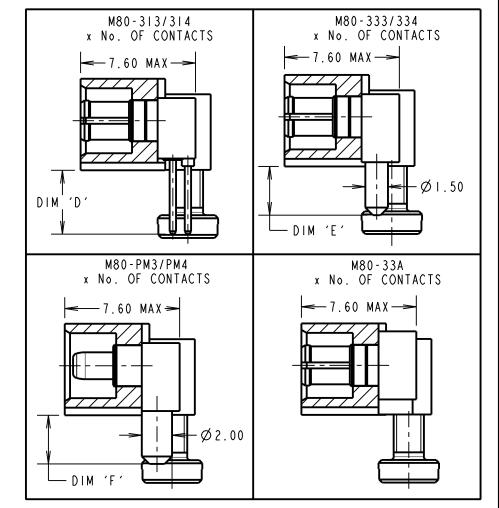
PACKING:

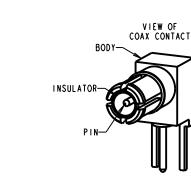
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

& SMT CONTACTS ONLY HORIZONTAL PC TAIL









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

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'	M80-313 = 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' = 50.00mm DIM 'E' = 3.0mm

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UNLESS STATED

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY

DRAWING NUMBER:

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