

Customer Information Sheet

DRAWING No.: M80-4000000FE-XX-XXX-00-000

SHEET 4 OF 6

IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

COAX CRIMP AND SOLDER CONTACTS ONLY

OBSOLETE

SPECIFICATIONS:

MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-0, BLACK

COAX CONTACT:

BODY, SLEEVE, END PLUG = COPPER ALLOY
INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER
INSULATOR = PTFE
GUIDE PIN, SCREW = STAINLESS STEEL

FINISH:

COAX CONTACT
BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD
LATCHING COLLAR: = NICKEL

ELECTRICAL:

INSULATION RESISTANCE = 100MΩ MIN

COAX CONTACT:

FREQUENCY RANGE = 6GHz
IMPEDANCE = 50Ω
V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
CONTACT RESISTANCE = 6mΩ MAX
INSULATION RESISTANCE = 10⁶MΩ @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:

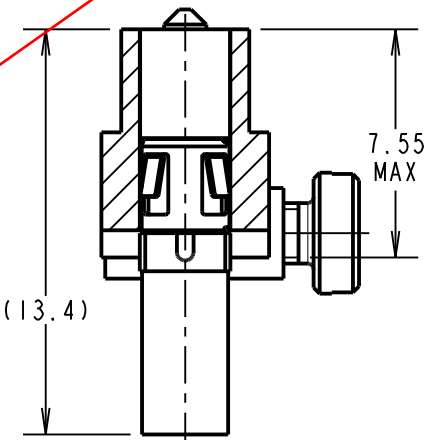
TEMPERATURE RANGE = -55°C TO +125°C

PACKING:

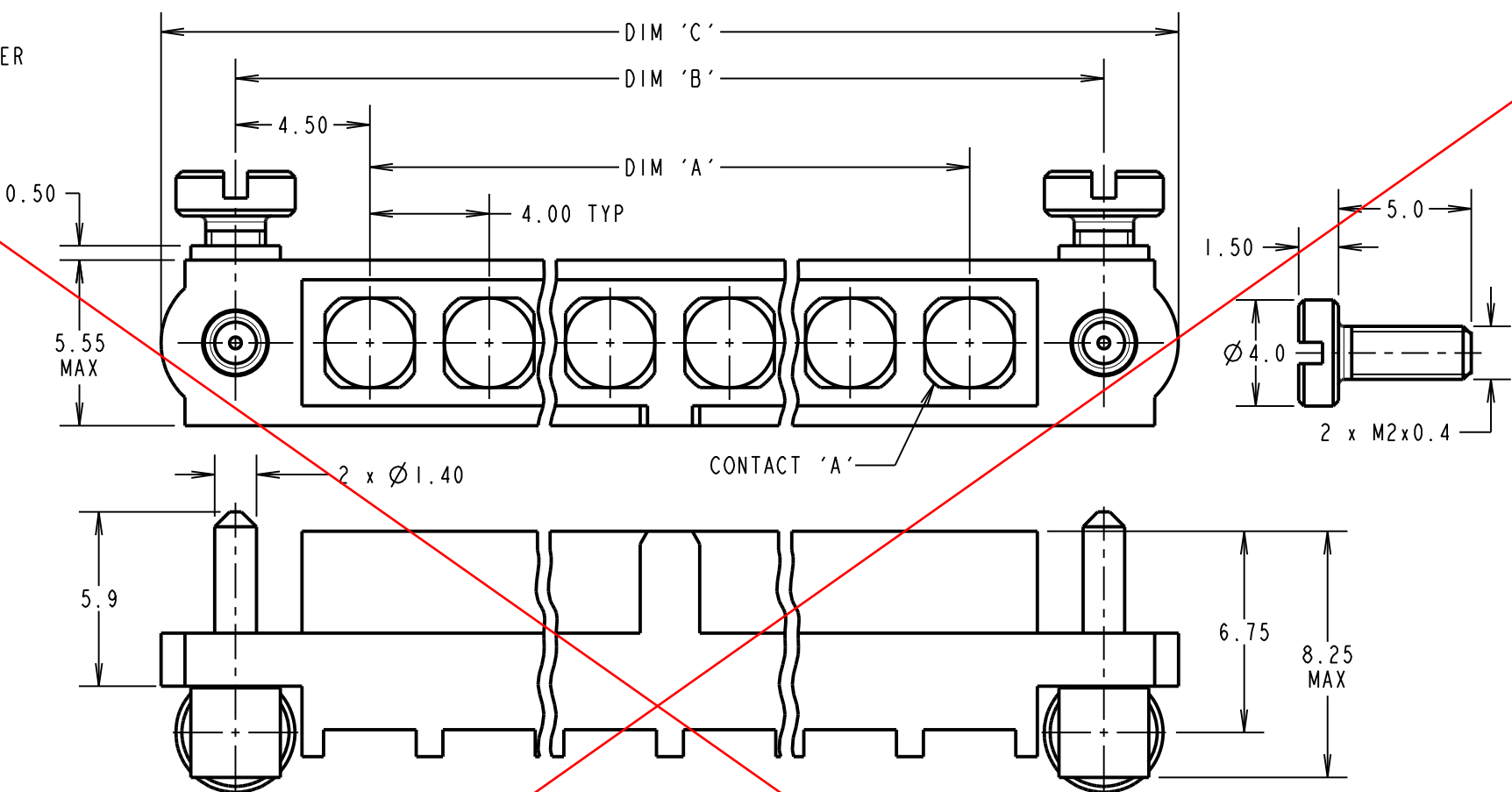
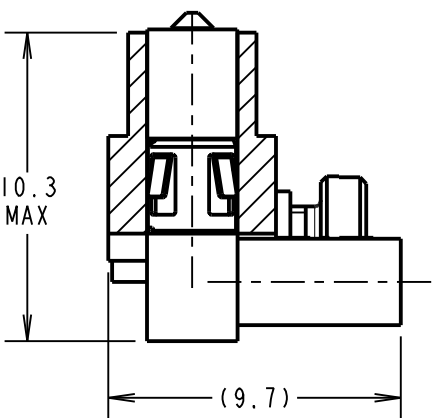
BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

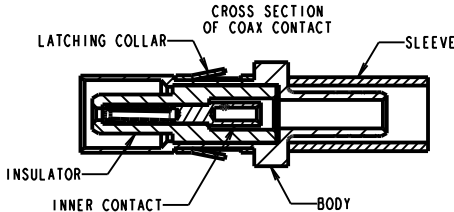
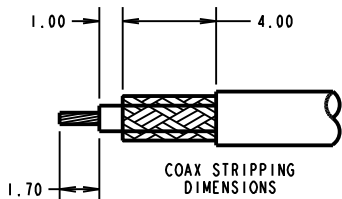
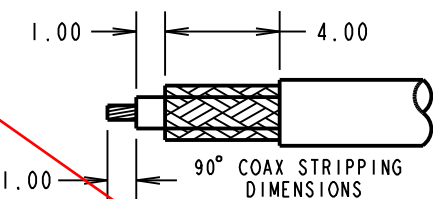
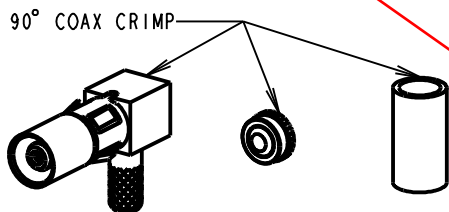
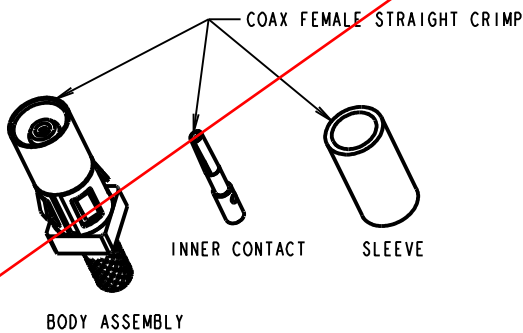
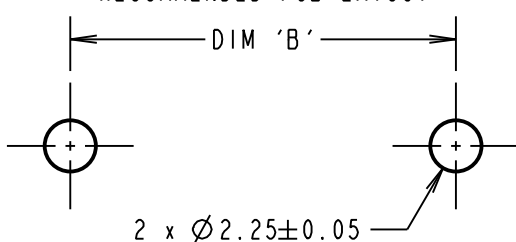
M80-305/306/307
x No. OF CONTACTS



M80-308/309
x No. OF CONTACTS



RECOMMENDED PCB LAYOUT



ORDER CODE: (COAX CRIMP/SOLDER)
M80-4000000FE-XX-XXX-00-000

TOTAL No. OF CONTACTS: 02 TO 12

SPECIAL CONTACTS:

305 = COAX CONTACT CRIMP 2.0mm M80-305
306 = COAX CONTACT CRIMP 2.4mm M80-306
307 = COAX CONTACT CRIMP 2.7mm M80-307
308 = 90° COAX CONTACT CRIMP/SOLDER 2.0mm M80-308
309 = 90° COAX CONTACT CRIMP/SOLDER 2.7mm M80-309

NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE.
- FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309.
- RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR COAX SLEEVE = Z80-293.
- COAX CONTACT EXTRACTION TOOL = Z80-290.
- INSTRUCTION SHEETS ARE AVAILABLE.

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: CONNECTOR WITH 08 COAX CONTACTS, M80-4000000FE-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm	

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TOLERANCES

X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm²

TITLE: DATAMATE MIX-TEK FEMALE
HORIZONTAL POWER ASSEMBLY
WITH GUIDE PINS AND BOARD MOUNT

DRAWING NUMBER:

M80-4000000FE-XX-XXX-00-000

SHT

4 OF 6

MSP	2	11.05.15	12566
NAME	ISS.	DATE	C/NOT
APPROVED:		M.PERREN	
CHECKED:		S.BENNETT	
DRAWN:		C.PENROSE	
CUSTOMER REF.:			
ASSEMBLY DRG:			

Customer Information Sheet

DRAWING No.: M80-4000000FE-XX-XXX-00-000

SHEET 5 OF 6

IF IN DOUBT - ASK

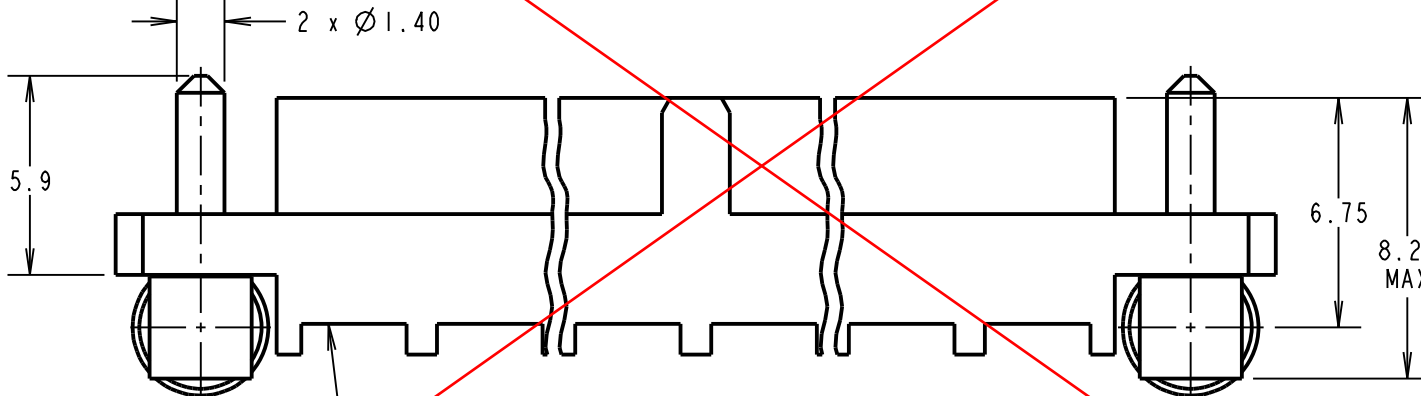
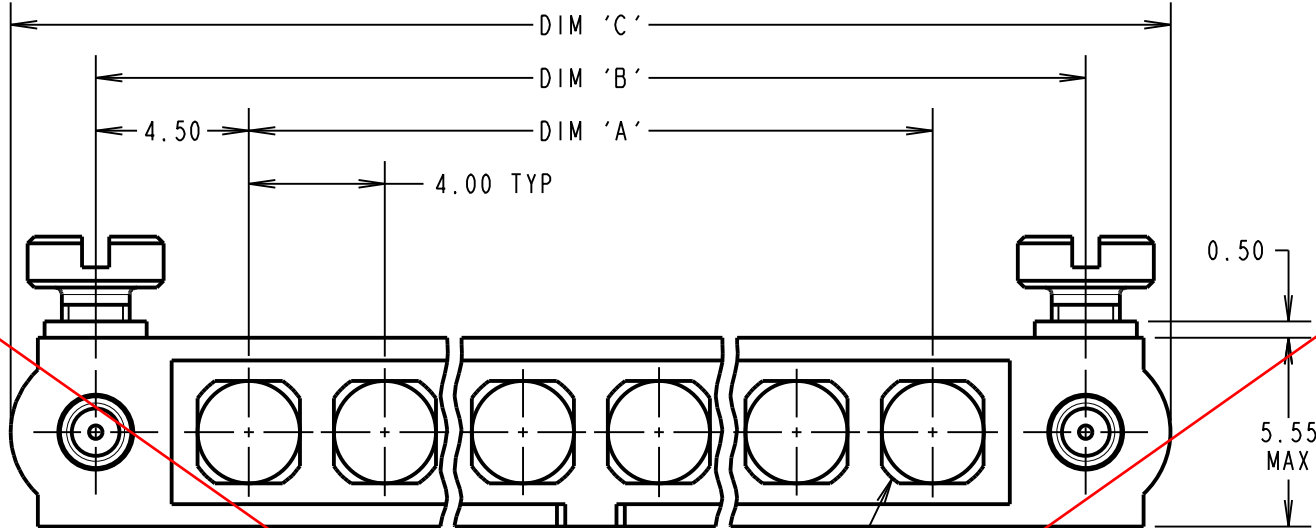
(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

POWER CRIMP AND SOLDER CONTACTS ONLY



SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY
SEE ORDER CODE FOR PART No. TO BE ASSEMBLED

OBSOLETE

ORDER CODE: (POWER CRIMP/SOLDER)
M80-4000000FE-XX-XXX-00-000

TOTAL No. OF CONTACTS: _____
02 TO 12

SPECIAL CONTACTS:
325 = POWER CONTACT SOLDER 12AWG M80-325
326 = POWER CONTACT SOLDER 14AWG M80-326
327 = POWER CONTACT SOLDER 16AWG M80-327
328 = POWER CONTACT SOLDER OR CRIMP 18AWG M80-328
329 = POWER CONTACT SOLDER OR CRIMP 20AWG M80-329
32A = 90° POWER CONTACT SOLDER 12AWG M80-32A
32B = 90° POWER CONTACT SOLDER 14AWG M80-32B
32C = 90° POWER CONTACT SOLDER 16AWG M80-32C
PF5 = POWER CONTACT SOLDER 10AWG M80-PF5

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:
SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

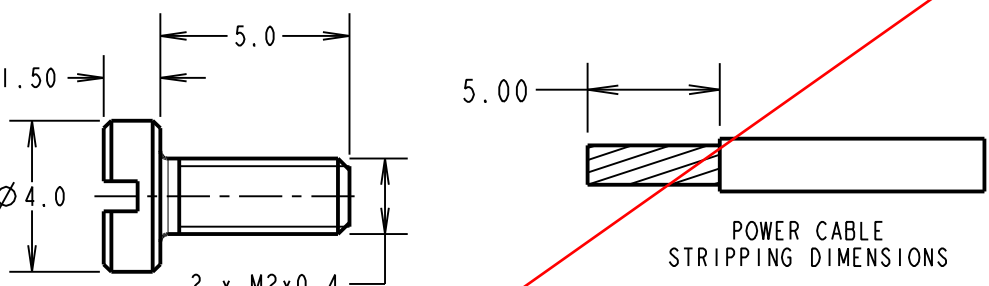
TITLE: DATAMATE MIX-TEK FEMALE
HORIZONTAL POWER ASSEMBLY
WITH GUIDE PINS AND BOARD MOUNT

DRAWING NUMBER:
M80-4000000FE-XX-XXX-00-000

SPECIFICATIONS:
MATERIAL:
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
POWER CONTACT:
BODY = COPPER ALLOY
LATCHING COLLAR = BERYLLIUM COPPER
GUIDE PIN, SCREW = STAINLESS STEEL
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 = 100MΩ MIN
POWER CONTACT:
CONTACT RESISTANCE = 6mΩ MAX
CURRENT RATING = M80-325 = 20A MAX WITH 12AWG
M80-326 = 15A MAX WITH 14AWG
M80-327 = 10A MAX WITH 16AWG
M80-328 = 8A MAX WITH 18AWG
M80-329 = 5A MAX WITH 20AWG
M80-32A = 20A MAX WITH 12AWG
M80-32B = 15A MAX WITH 14AWG
M80-32C = 10A MAX WITH 16AWG
M80-PF5 = 40A MAX WITH 10AWG
CONTACT AS SPECIFIED

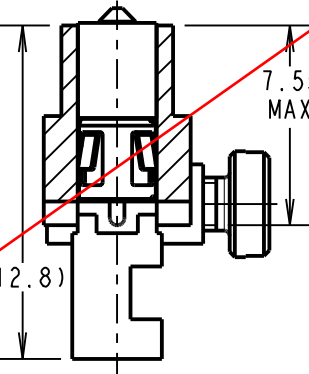
MECHANICAL:
DURABILITY = 500 OPERATIONS
POWER CONTACT:
INSERTION FORCE:
M80-325/326/327/328/329/
32A/32B/32C = 8N MAX
M80-PF5 = 15N MAX
WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
TEMPERATURE RANGE:
M80-325/326/327/328/329/
32A/32B/32C = -55°C TO +125°C
M80-PF5 = -55°C TO +150°C

PACKING:
BAG
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

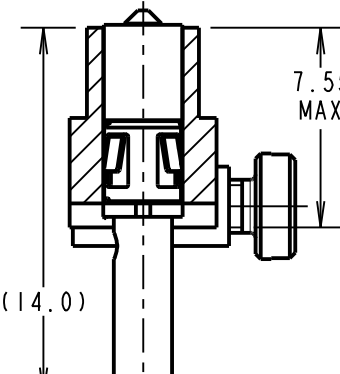


DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
EXAMPLE: CONNECTOR WITH 08 POWER CONTACTS, M80-4000000FE-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm	

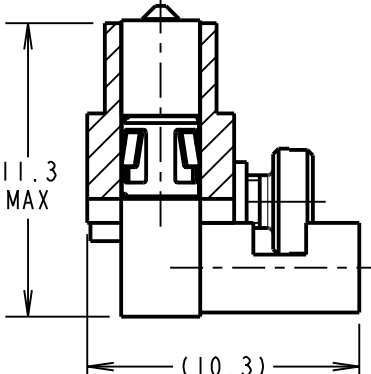
M80-325/326/327
x No. OF CONTACTS



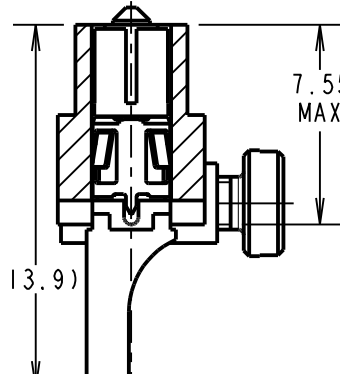
M80-328/329
x No. OF CONTACTS



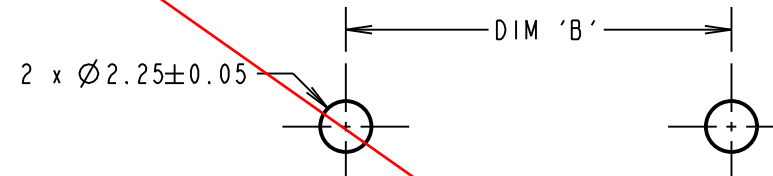
M80-32A/32B/32C
x No. OF CONTACTS



M80-PF5
x No. OF CONTACTS



RECOMMENDED PCB LAYOUT



- NOTES:
- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
 - FOR EXTRA POWER CONTACTS, USE PART NUMBERS:
M80-325/326/327/328/329/32A/32B/32C/PF5.
 - POWER CONTACT EXTRACTION TOOL = Z80-290.
 - INSTRUCTION SHEETS ARE AVAILABLE.
 - RECOMMENDED HAND CRIMP TOOL FOR CONTACTS
M80-328/329 = Z80-294 WITH POSITIONER Z80-295.
 - POWER CONTACT WIRE, STRIP BY 5.00mm MINIMUM.

MSP	2	11.05.15	12566
NAME	ISS.	DATE	C/NOTE
APPROVED:		M.PERREN	
CHECKED:		S.BENNETT	
DRAWN:		C.PENROSE	
CUSTOMER REF.:			
ASSEMBLY DRG:			

Customer Information Sheet

DRAWING No.: M80-4000000FE-XX-XXX-00-000

SHEET 6 OF 6

IF IN DOUBT - ASK

(C)

NOT TO SCALE

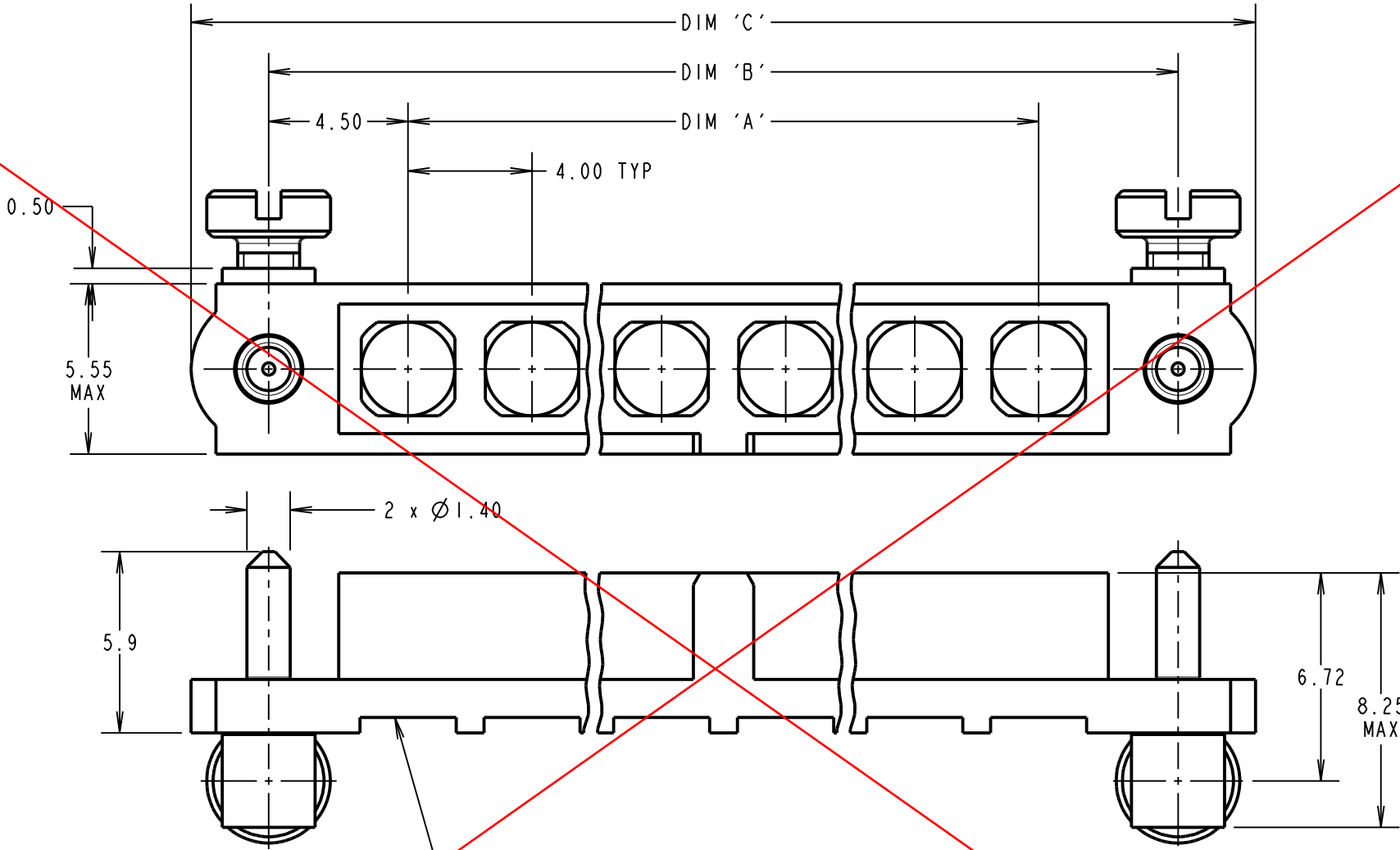
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
POWER CONTACT: COPPER ALLOY
COAX CONTACT:
BODY = COPPER ALLOY
INNER CONTACT = COPPER ALLOY
INSULATOR = PTFE
GUIDE PIN, SCREW = STAINLESS STEEL
FINISH:
POWER CONTACT: GOLD
COAX CONTACT: BODY, INNER CONTACT = GOLD
ELECTRICAL:
WORKING VOLTAGE = 800V AC/DC
VOLTAGE PROOF = 1200V AC/DC
INSULATION RESISTANCE = 100MΩ MIN
POWER CONTACT:
CONTACT RESISTANCE = 6mΩ MAX
CURRENT RATING:
M80-323/324 = 20A MAX
M80-PF3/PF4 = 40A MAX
MECHANICAL:
DURABILITY = 500 OPERATIONS
POWER CONTACT:
INSERTION FORCE:
M80-323/324 = 8N MAX
M80-PF3/PF4 = 15N MAX
WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
TEMPERATURE RANGE:
M80-323/324 = -55°C TO +125°C
M80-PF3/PF4 = -55°C TO +150°C
PACKING:
TUBE
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

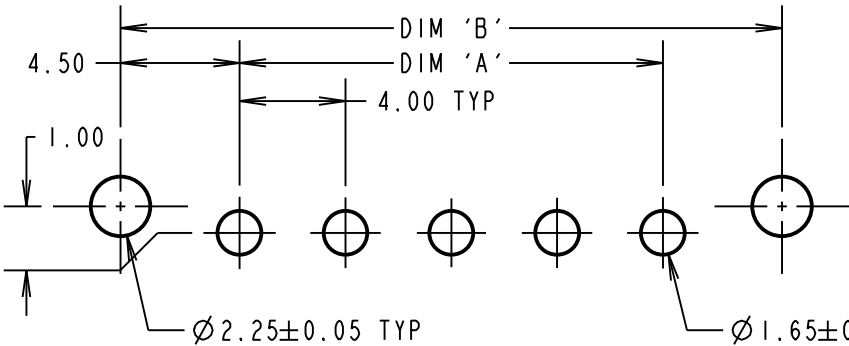
PC TAIL HORIZONTAL CONTACTS ONLY



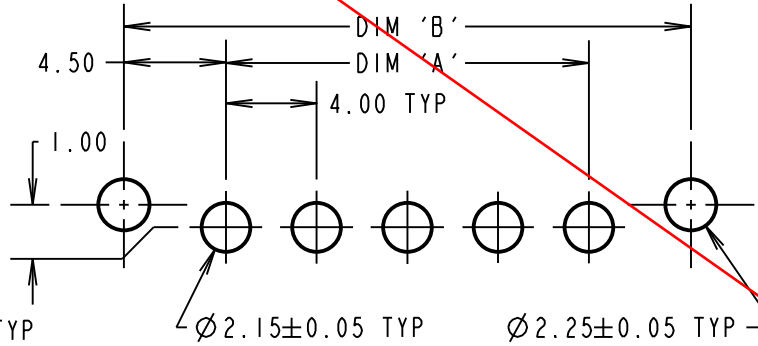
SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY
SEE ORDER CODE FOR PART No. TO BE ASSEMBLED

OBSOLETE

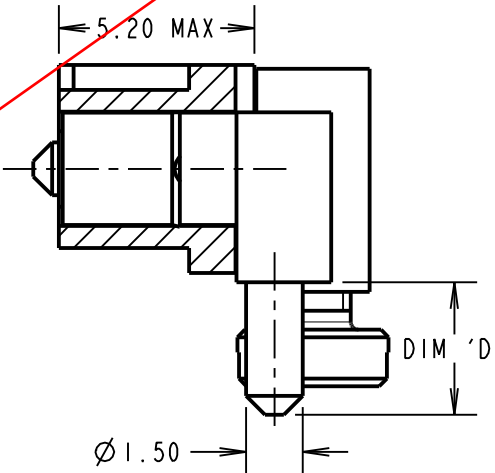
RECOMMENDED PCB LAYOUT FOR
POWER CONTACTS: M80-323/324



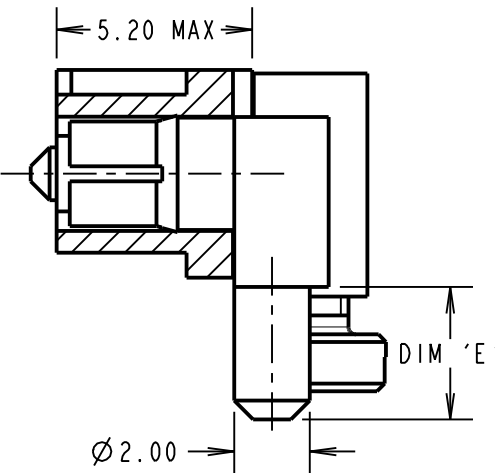
RECOMMENDED PCB LAYOUT FOR
POWER CONTACTS: M80-PF3/PF4



M80-323/324
x No. OF CONTACTS



M80-PF3/PF4
x No. OF CONTACTS



ORDER CODE:
(FEMALE HORIZONTAL POWER CONTACTS ONLY)

M80-4000000FE-XX-XXX-00-000

TOTAL No. OF CONTACTS: _____
02 TO 12

FEMALE HORIZONTAL POWER CONTACTS:

323 = 20A POWER CONTACT PC TAIL 3.5mm M80-323
324 = 20A POWER CONTACT PC TAIL 5.0mm M80-324
PF3 = 40A POWER CONTACT PC TAIL 3.5mm M80-PF3
PF4 = 40A POWER CONTACT PC TAIL 5.0mm M80-PF4

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'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-PF3 = 3.50mm, M80-PF4 = 5.00mm
EXAMPLE 1: CONNECTOR WITH 10 POWER CONTACTS 3.5mm, M80-4000000FE-10-323-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'D' = 3.50mm	

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X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm²

TITLE:

DATAMATE MIX-TEK FEMALE
HORIZONTAL POWER ASSEMBLY
WITH GUIDE PINS AND BOARD MOUNT

DRAWING NUMBER:

M80-4000000FE-XX-XXX-00-000

SHT

6 OF 6

MSP	2	11.05.15	12566
NAME	ISS.	DATE	C/NOTE
APPROVED: M.PERREN			
CHECKED: S.BENNETT			
DRAWN: C.PENROSE			
CUSTOMER REF.:			
ASSEMBLY DRG:			