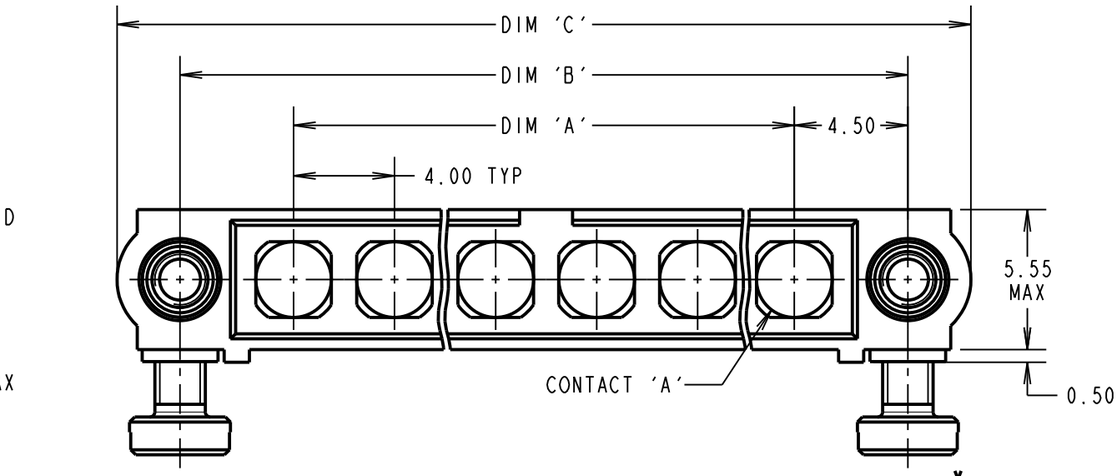
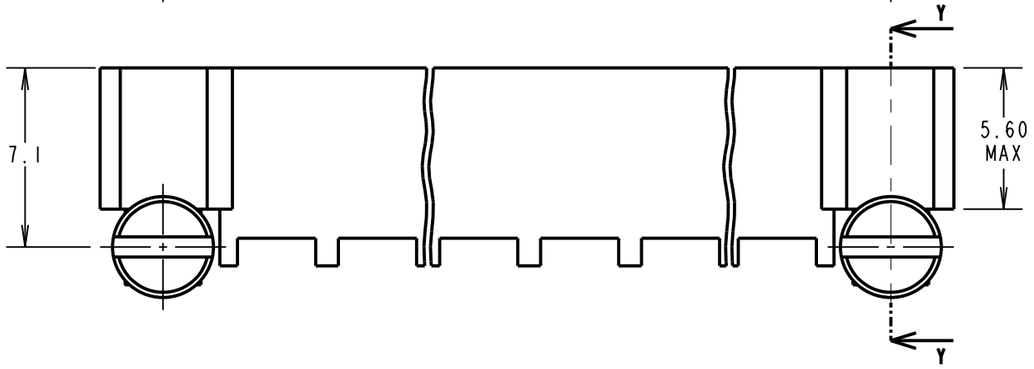
Customer Information Sheet

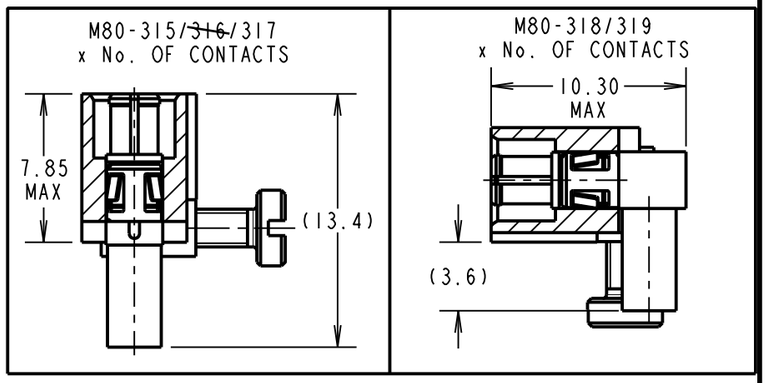
DRAWING No.: M80-5000000M5-XX-XXX-00-000	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

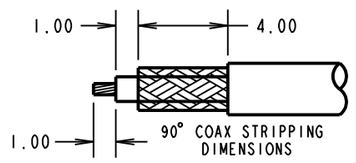
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 COAX CONTACT:
  BODY, SLEEVE, INNER CONTACT,
  END PLUG = COPPER ALLOY
  LATCHING COLLAR = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, SCREW = STAINLESS STEEL
FINISH:
 COAX CONTACT
  BODY,SLEEVE, INNER CONTACT, END PLUG = GOLD
  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 = 10^6MΩ @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)

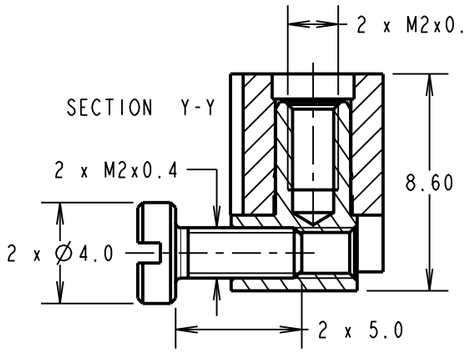
COAX CRIMP AND SOLDER CONTACTS ONLY

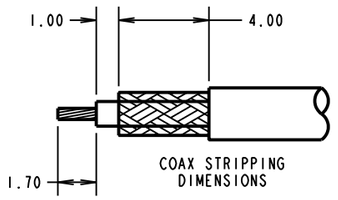


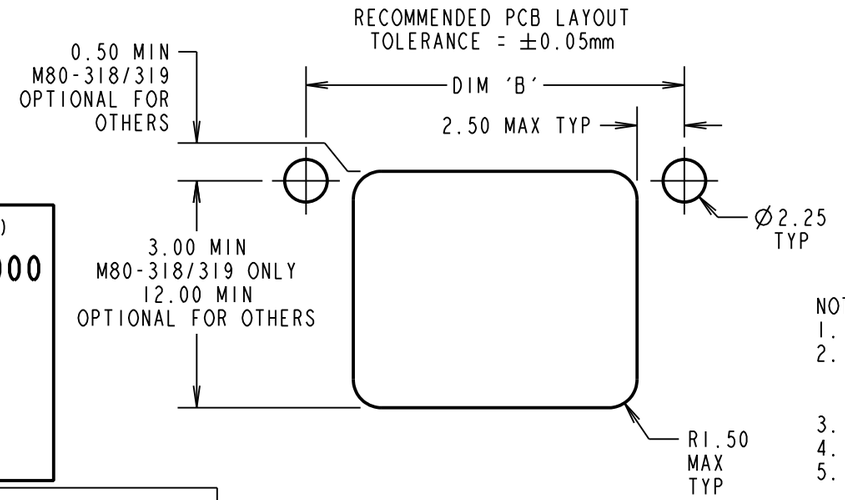


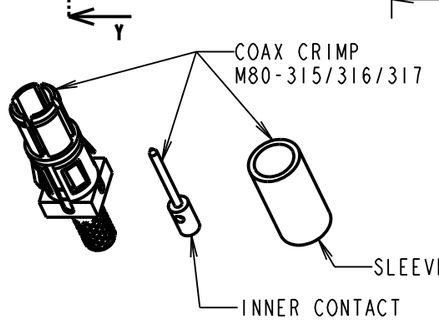


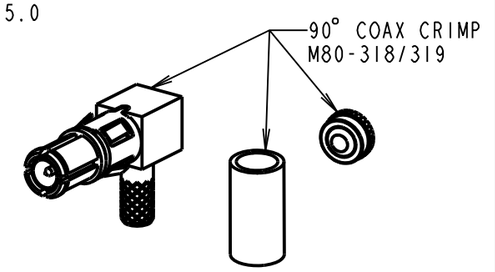












ORDER CODE:(COAX CRIMP/SOLDER CONTACTS)

M80-5000000M5-XX-XXX-00-000

TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS (CRIMP)
 315 = COAX CONTACT 2.0mm CRIMP M80-315
 ~~316 = COAX CONTACT 2.4mm CRIMP M80-316~~
 317 = COAX CONTACT 2.7mm CRIMP M80-317
 318 = COAX CONTACT 2.0mm HORZ' CRIMP M80-318
 319 = COAX CONTACT 2.7mm HORZ' CRIMP M80-319

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 + 10.0

EXAMPLE: CONNECTOR WITH 08 COAX CONTACTS,
M80-5000000M5-08-315-00-000
DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm

NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS AND BM SCREWS NOT ASSEMBLED.
2. 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.
3. FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/~~316~~/317/318/319.
4. 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.

MGP	11	09.12.19	21540
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: MR
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

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

TITLE: DATAMATE MIX-TEK MALE ASSY WITH HORIZONTAL BOARDMOUNT J/SCREW
DRAWING NUMBER: M80-5000000M5-XX-XXX-00-000
SHT 4 OF 6

Customer Information Sheet

DRAWING No.: M80-5000000M5-XX-XXX-00-000	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:
- MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
- POWER CONTACT:
  - BODY = COPPER ALLOY
  - LATCHING COLLAR = BERYLLIUM COPPER
- JACKSCREW, SCREW = STAINLESS STEEL

FINISH:
- POWER CONTACT:
  - BODY = 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 = M80-335 = 20A MAX WITH 12AWG
  M80-336 = 15A MAX WITH 14AWG
  M80-337 = 10A MAX WITH 16AWG
  M80-338 = 8A MAX WITH 18AWG
  M80-339 = 5A MAX WITH 20AWG
  M80-PM5 = 40A MAX WITH 10AWG
  CONTACT AS SPECIFIED

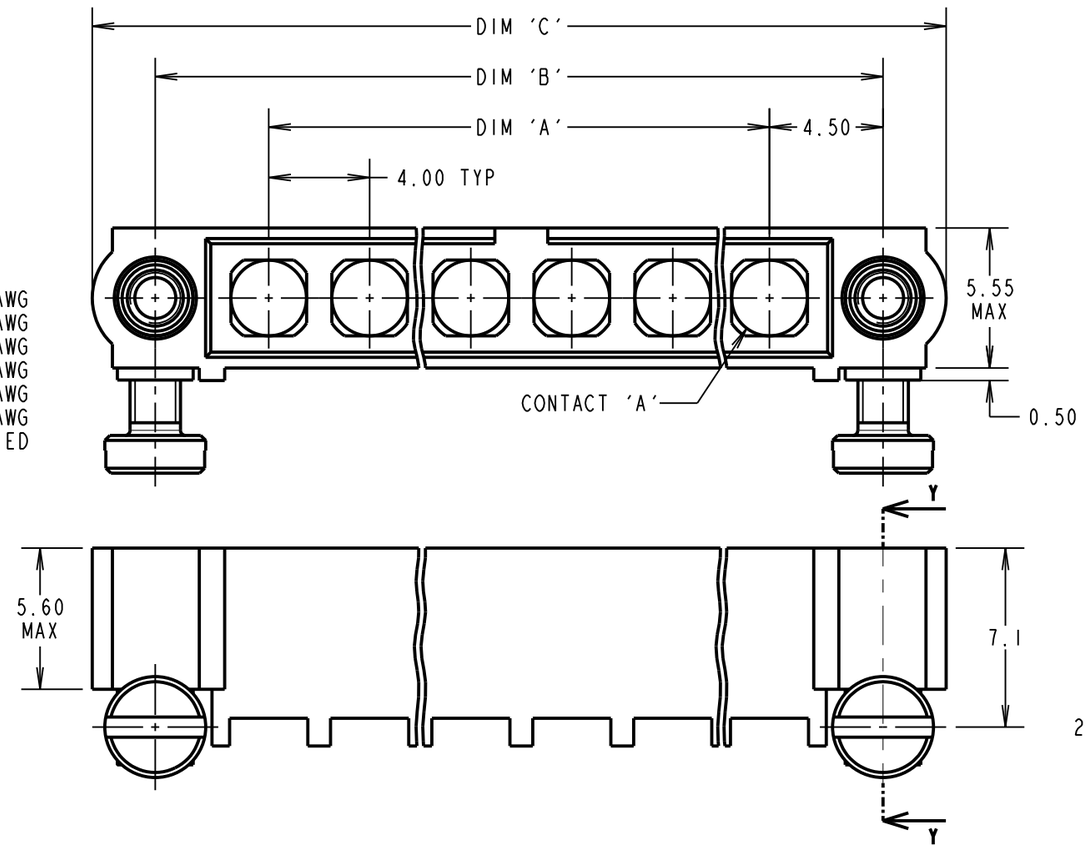
MECHANICAL:
- DURABILITY = 500 OPERATIONS
- POWER CONTACT:
  - INSERTION FORCE:
    - M80-335/336/337/338/339 = 8N MAX
    - M80-PM5 = 15N MAX
  - WITHDRAWAL FORCE = 0.5N MIN

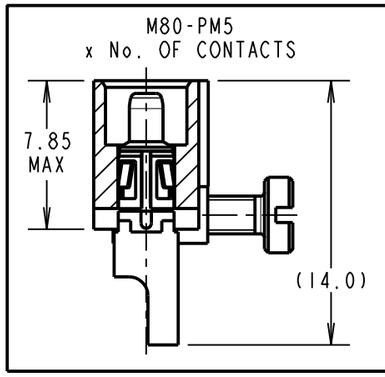
ENVIRONMENTAL:
- TEMPERATURE RANGE:
  - M80-335/336/337/338/339 = -55°C TO +125°C
  - M80-PM5 = -55°C TO +150°C

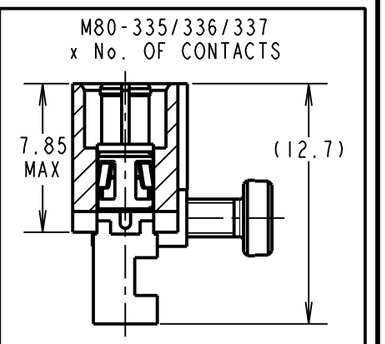
PACKING:
- BAG

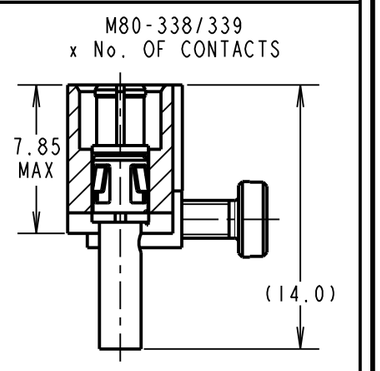
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

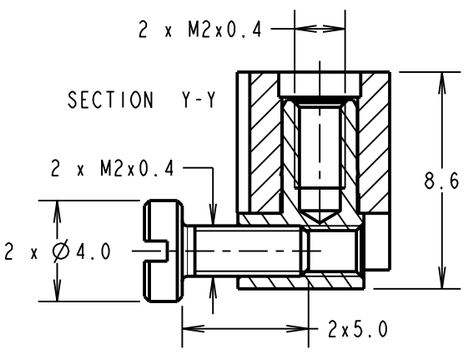
POWER CRIMP AND SOLDER CONTACTS ONLY











NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS AND BM SCREWS NOT ASSEMBLED.
2. FOR EXTRA POWER CONTACTS USE PART NUMBERS: M80-335/336/337/338/339/PM5.
3. CONTACT EXTRACTION TOOL = Z80-290
4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS M80-338/339 = Z80-294 AND POSITIONER Z80-295.
5. INSTRUCTION SHEETS ARE AVAILABLE.

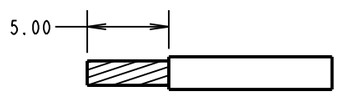
ORDER CODE:(POWER CRIMP/SOLDER CONTACTS)

M80-5000000M5-XX-XXX-00-000

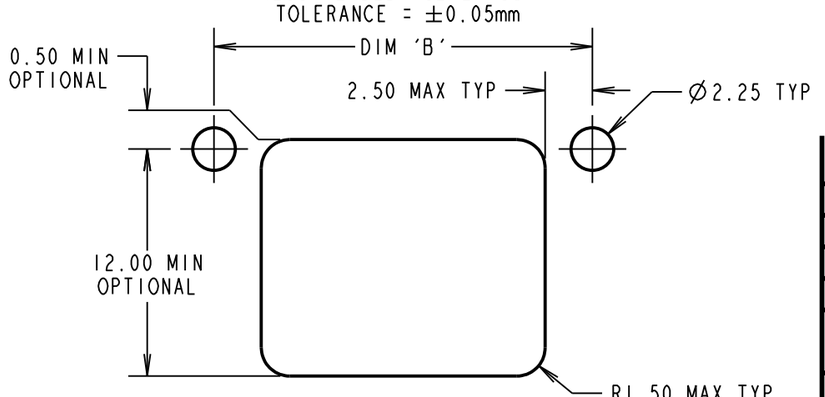
TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS (CRIMP)
- 335 = POWER CONTACT 12AWG SOLDER M80-335
- 336 = POWER CONTACT 14AWG SOLDER M80-336
- 337 = POWER CONTACT 16AWG SOLDER M80-337
- 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338
- 339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339
- PM5 = POWER CONTACT 10AWG SOLDER M80-PM5

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 + 10.0
EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000M5-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm	



RECOMMENDED PCB LAYOUT
TOLERANCE = ±0.05mm



MGP	11	09.12.19	21540
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: MR
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

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

TITLE: DATAMATE MIX-TEK MALE ASSY WITH HORIZONTAL BOARDMOUNT J/SCREW
DRAWING NUMBER: M80-5000000M5-XX-XXX-00-000
SHT 5 OF 6

Customer Information Sheet

DRAWING No.: M80-5000000M5-XX-XXX-00-000	IF IN DOUBT - ASK	©	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
- JACKSCREW, SCREW = STAINLESS STEEL

FINISH:
- POWER CONTACT: GOLD
- COAX CONTACT: BODY, INNER CONTACT = GOLD

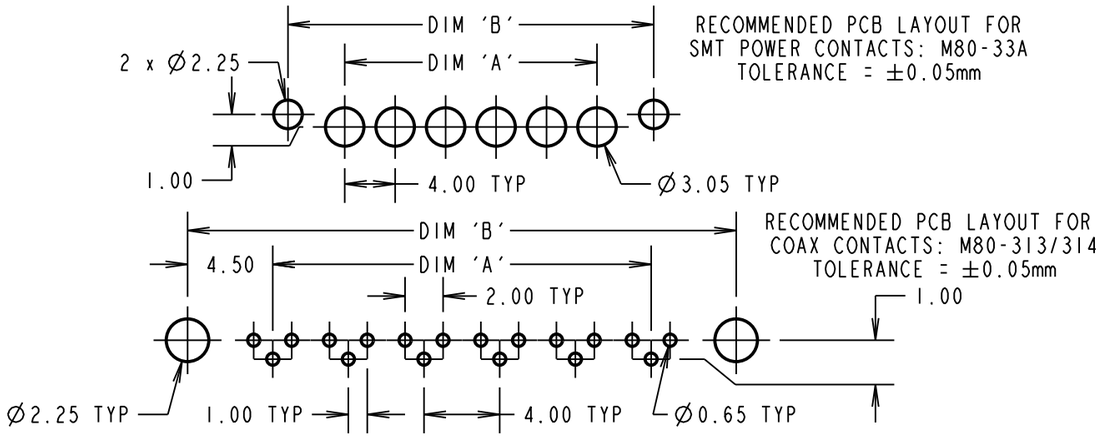
ELECTRICAL:
- WORKING VOLTAGE = 800V AC/DC
- VOLTAGE PROOF = 1200V AC/DC
- INSULATION RESISTANCE = 100MΩ MIN
- POWER CONTACT:
  - CONTACT RESISTANCE = 6mΩ MAX
  - CURRENT RATING:
    - M80-333/334/33A = 20A MAX
    - M80-PM3/PM4 = 40A MAX
- COAX CONTACT:
  - FREQUENCY RANGE = 6GHz
  - IMPEDANCE = 50Ω
  - V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
  - CONTACT RESISTANCE = 6mΩ MAX
  - INSULATION RESISTANCE = 10^6MΩ @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

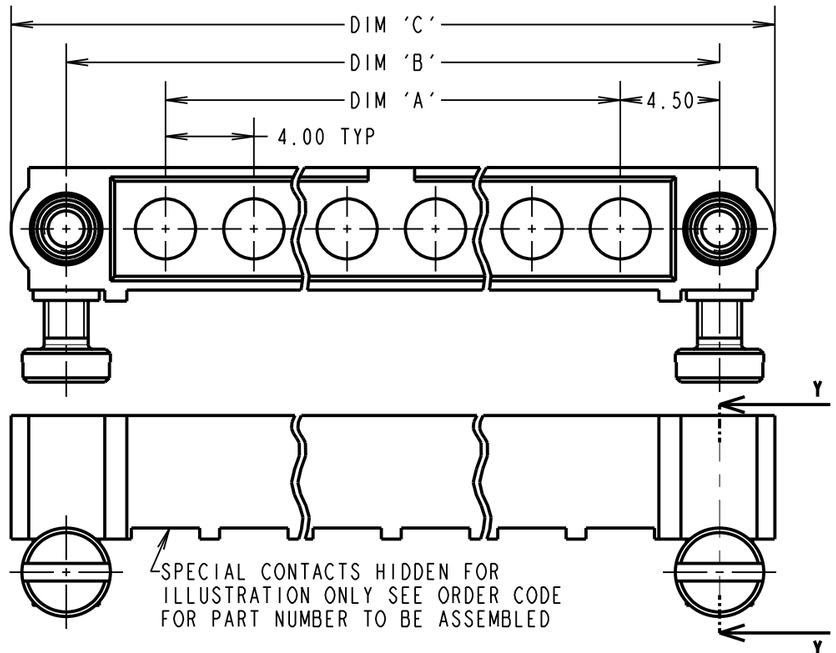
ENVIRONMENTAL:
- TEMPERATURE RANGE:
  - M80-313/314/333/334/33A = -55°C TO +125°C
  - M80-PM3/PM4 = -55°C TO +150°C

PACKING:
- TUBE

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)



COAX AND POWER PC TAIL CONTACTS ONLY



ORDER CODE: (COAX & POWER PC TAIL CONTACTS ONLY)

M80-5000000M5-XX-XXX-00-000

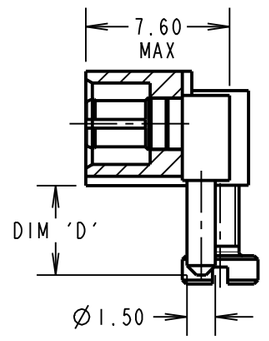
TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS
- 313 = COAX CONTACT 3.0mm PC TAIL M80-313
- 314 = COAX CONTACT 4.5mm PC TAIL M80-314
- 333 = 20A POWER CONTACT 3.5mm PC TAIL M80-333
- 334 = 20A POWER CONTACT 5.0mm PC TAIL M80-334
- PM3 = 40A POWER CONTACT 3.5mm PC TAIL M80-PM3
- PM4 = 40A POWER CONTACT 5.0mm PC TAIL M80-PM4
- 33A = 20A POWER CONTACT HORIZONTAL SMT M80-33A

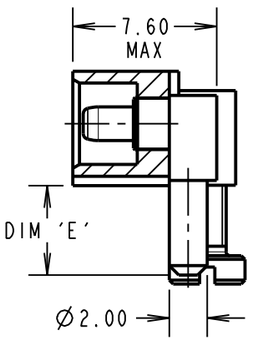
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.0
DIM 'D'	M80-333 = 3.5mm, M80-334 = 5.0mm
DIM 'E'	M80-PM3 = 3.5mm, M80-PM4 = 5.0mm
DIM 'F'	M80-313 = 3.0mm, M80-314 = 4.5mm

EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS,
M80-5000000M5-10-333-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm
DIM 'D' = 3.5mm

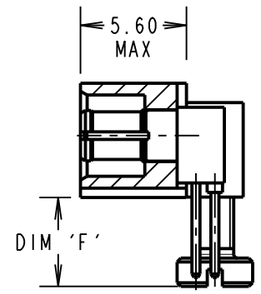
M80-333/334
x No. OF CONTACTS



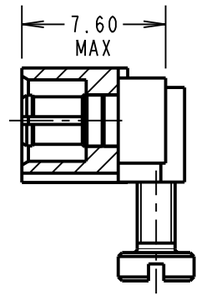
M80-PM3/PM4
x No. OF CONTACTS

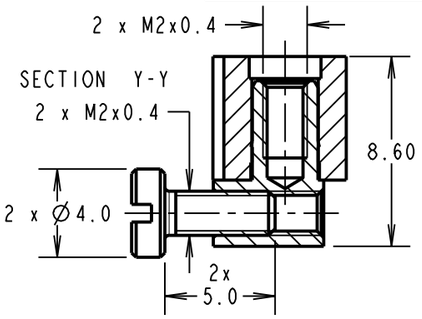


M80-313/M80-314
x No. OF CONTACTS



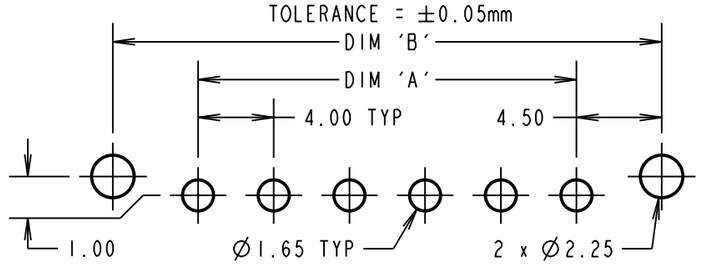
M80-33A
x No. OF CONTACTS



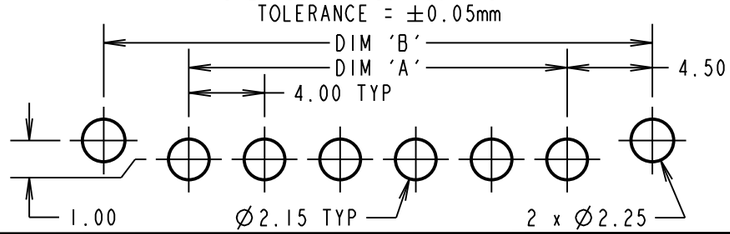


NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS ASSEMBLED. SUPPLIED BM SCREWS ARE NOT ASSEMBLED.

RECOMMENDED PCB LAYOUT FOR
POWER CONTACTS: M80-333/334
TOLERANCE = ±0.05mm



RECOMMENDED PCB LAYOUTS FOR
POWER CONTACTS: M80-PM3/PM4
TOLERANCE = ±0.05mm



MGP	11	09.12.19	21540
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: MR
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

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

TITLE: DATAMATE MIX-TEK MALE ASSY WITH HORIZONTAL BOARDMOUNT J/SCREW

DRAWING NUMBER: M80-5000000M5-XX-XXX-00-000

SHT 6 OF 6