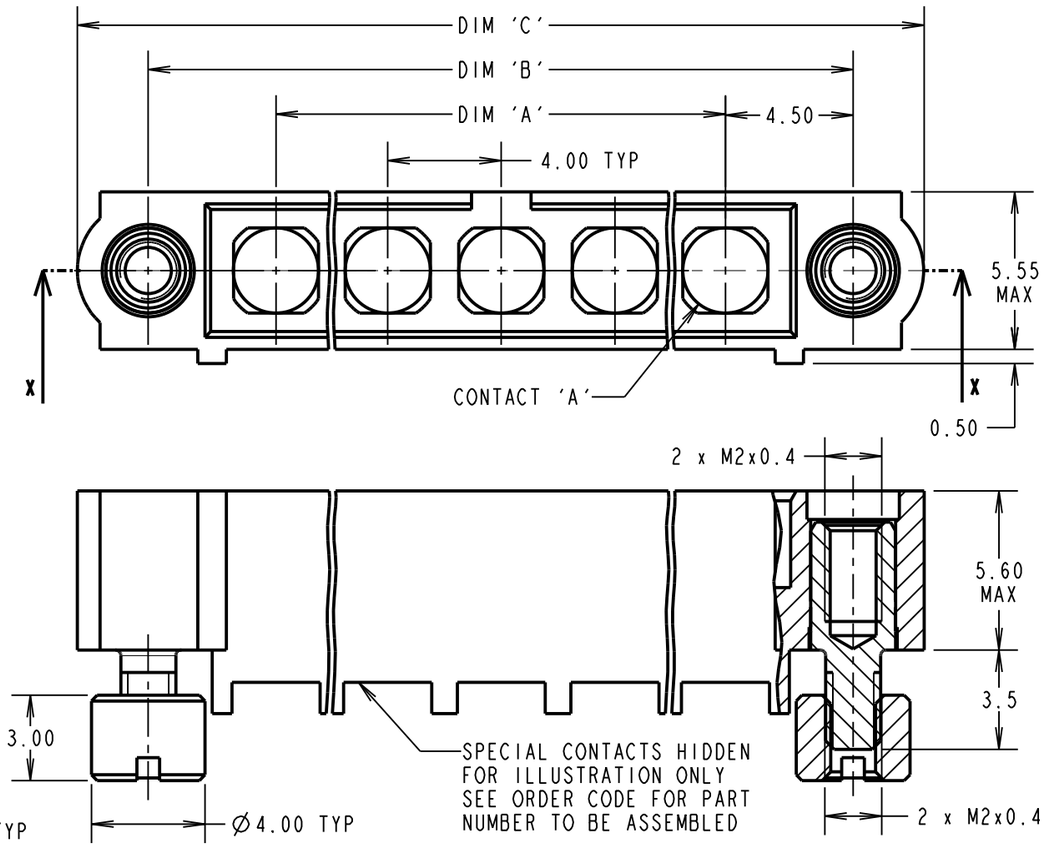
Customer Information Sheet

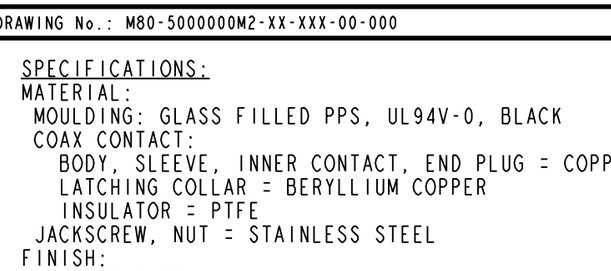
DRAWING No.: M80-5000000M2-XX-XXX-00-000	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

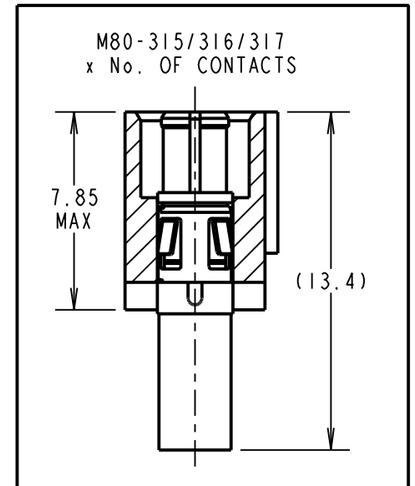
SPECIFICATIONS:
MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
 COAX CONTACT:
  BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY
  LATCHING COLLAR = BERYLLIUM COPPER
  INSULATOR = PTFE
 JACKSCREW, NUT = STAINLESS STEEL
FINISH:
 COAX CONTACT
  BODY,SLEEVE, INNER CONTACT, END PLUG = GOLD
  LATCHING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

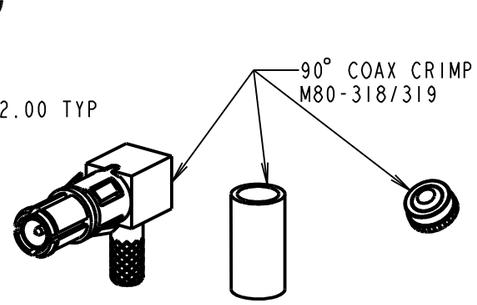
COAX CRIMP/SOLDER CONTACTS ONLY

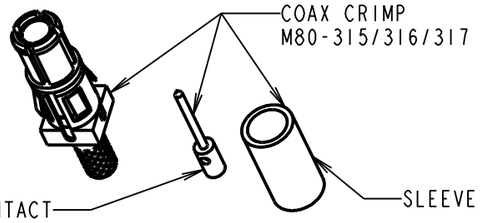


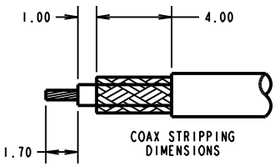
PART SECTION X-X









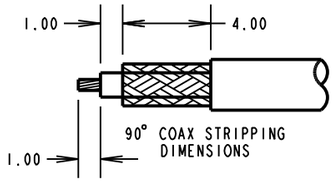


ORDER CODE:(COAX CRIMP/SOLDER CONTACTS)

M80-5000000M2-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 + 10.00
EXAMPLE: CONNECTOR WITH 08 COAX CONTACTS, M80-5000000M2-08-315-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm	

NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
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.

MSP	7	11.08.15	12997
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.PERREN		
CHECKED:	S.BENNETT		
DRAWN:	C.PENROSE		
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWiN
www.harwin.com
technical@harwin.com

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

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

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY WITH BOARD MOUNT J-SCREW

DRAWING NUMBER: M80-5000000M2-XX-XXX-00-000

SHT 4 OF 7

Customer Information Sheet

DRAWING No.: M80-5000000M2-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, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY
  - LATCHING COLLAR = BERYLLIUM COPPER
  - INSULATOR = PTFE
  - IOILOK RETAINER = 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 = M80-335 = 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

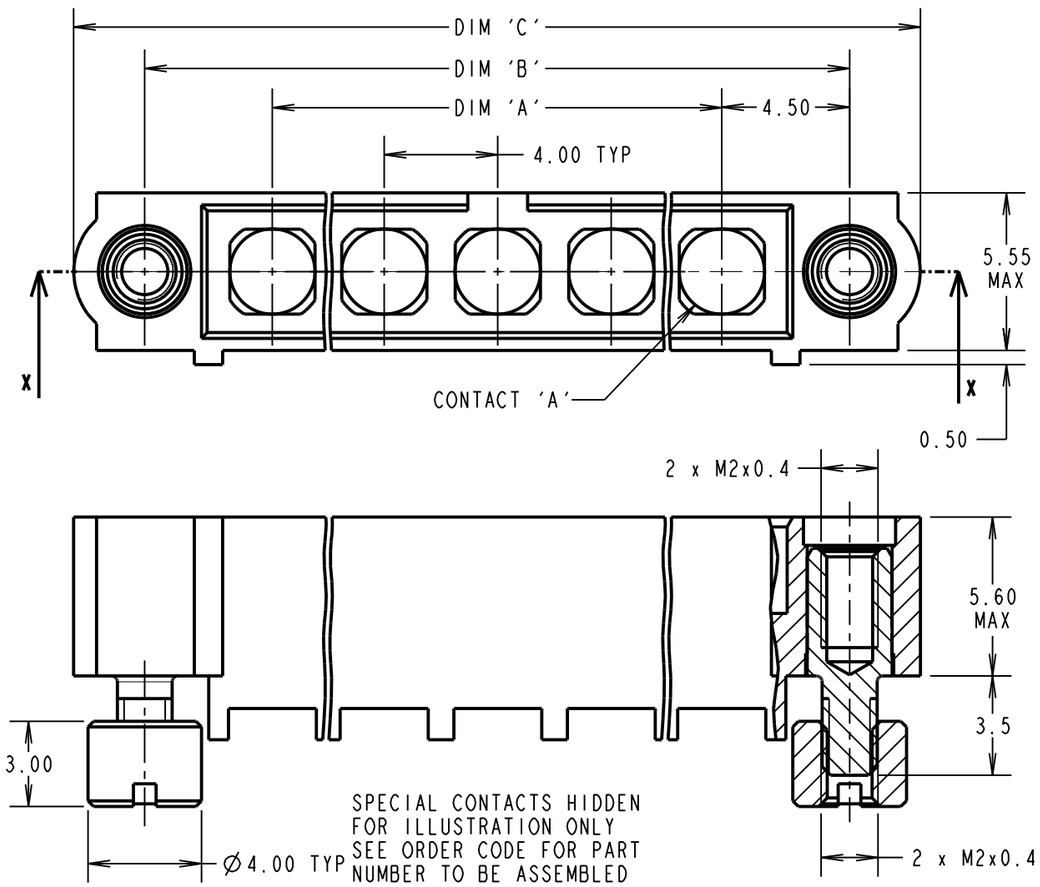
MECHANICAL:
- DURABILITY = 500 OPERATIONS
- POWER CONTACT:
  - INSERTION FORCE:
    - M80-335/336/337/338/339 = 8N MAX
    - M80-PM5 = 15N MAX
  - WITHDRAWAL FORCE = 0.5N MIN

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

PACKING:
- BAG

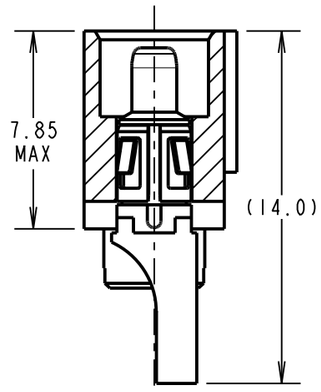
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

POWER CRIMP/SOLDER CONTACTS ONLY

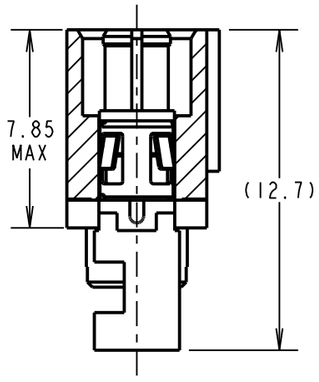


PART SECTION X-X

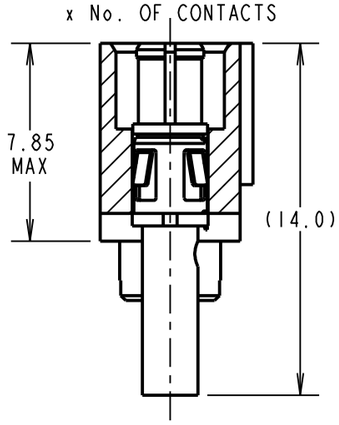
M80-PM5
x No. OF CONTACTS



M80-335/336/337
x No. OF CONTACTS



M80-338/339
x No. OF CONTACTS



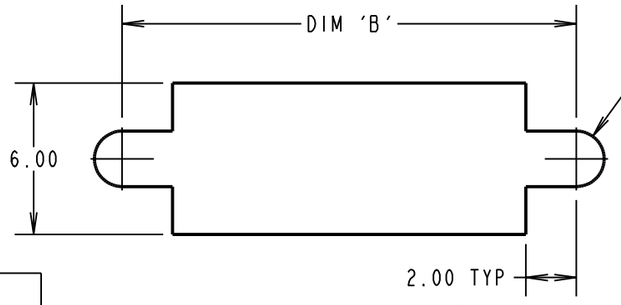
ORDER CODE:(POWER CRIMP/SOLDER CONTACTS)

M80-5000000M2-XX-XXX-00-000

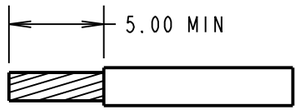
TOTAL No. OF CONTACTS
02 TO 12

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 + 10.00
EXAMPLE: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000M2-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm	



RECOMMENDED PCB CUT OUT



POWER CABLE
STRIPPING DIMENSIONS

NOTES:
1. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
2. FOR EXTRA POWER CONTACTS USE PART NUMBERS: M80-335/336/337/338/339/PF5.
3. CONTACT EXTRACTION TOOL = Z80-290.
4. RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 AND POSITIONER Z80-295.
5. INSTRUCTION SHEETS ARE AVAILABLE.

MSP	7	11.08.15	12997
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.PERREN		
CHECKED:	S.BENNETT		
DRAWN:	C.PENROSE		
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN
www.harwin.com
technical@harwin.com

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

MATERIAL: SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm²

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY WITH BOARD MOUNT J-SCREW

DRAWING NUMBER: M80-5000000M2-XX-XXX-00-000

SHT 5 OF 7

Customer Information Sheet

DRAWING No.: M80-5000000M2-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
  - 101LOK RETAINER = 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:
    - M80-311/312 = 20A MAX
    - M80-331/332 = 20A MAX
    - M80-PMI/PM2 = 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:
    - M80-331/332 = 8N MAX
    - M80-PMI/PM2 = 15N MAX
  - WITHDRAWAL FORCE = 0.5N MIN
- COAX CONTACT:
  - INSERTION FORCE = 8N MAX
  - WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:
- TEMPERATURE RANGE:
  - M80-311/312/331/332 = -55°C TO +125°C
  - M80-PMI/PM2 = -55°C TO +150°C

PACKING:
- TUBE

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

ORDER CODE:(COAX PC TAIL CONTACTS ONLY)

M80-5000000M2-XX-XXX-00-000

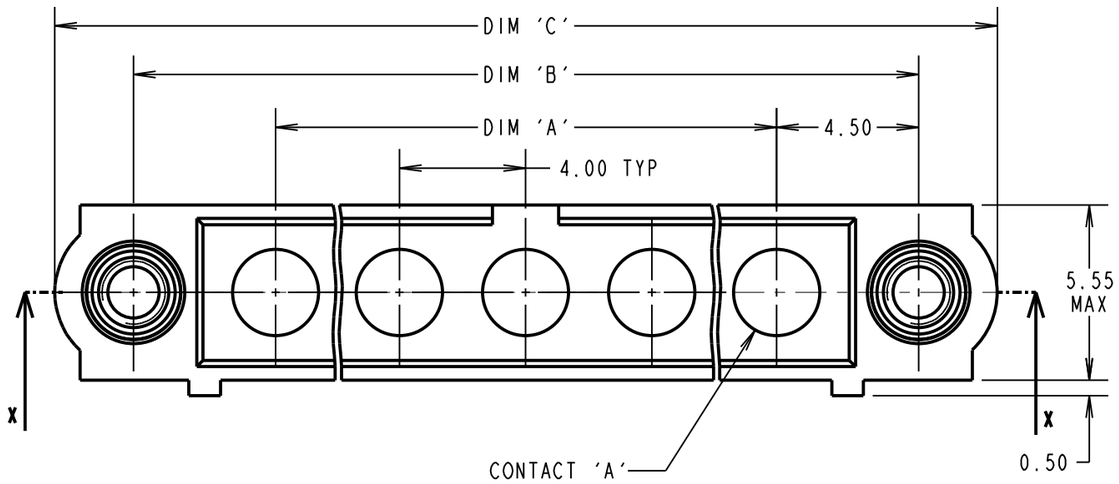
TOTAL No. OF CONTACTS 02 TO 12

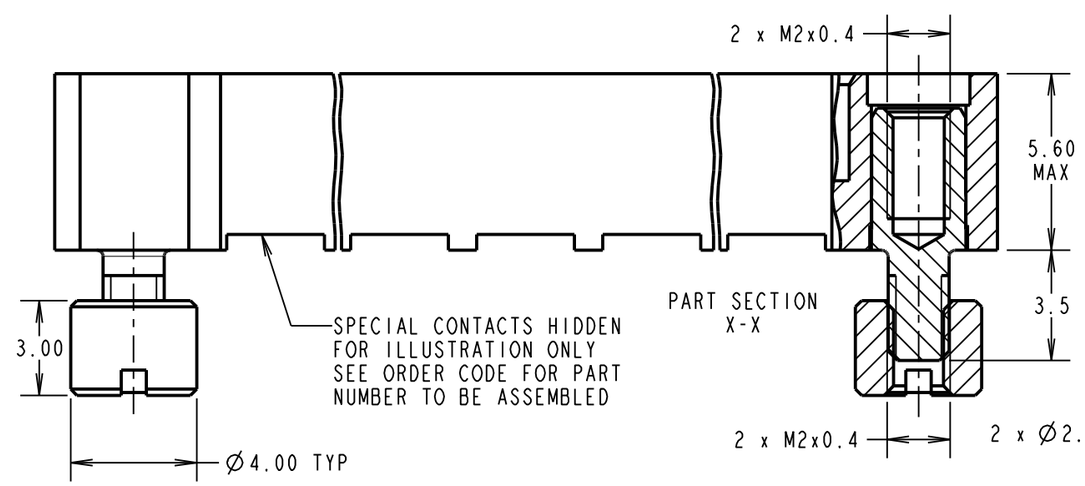
SPECIAL CONTACTS (PC TAIL)
- 311= COAX CONTACT 3.0mm VERT' PC TAIL M80-311
- 312 = COAX CONTACT 4.5mm VERT' PC TAIL M80-312
- 331 = 20A POWER CONTACT 3.5mm VERT' PC TAIL M80-331
- 332 = 20A POWER CONTACT 5.0mm VERT' PC TAIL M80-332
- PMI = 40A POWER CONTACT 3.5mm VERT' PC TAIL M80-PMI
- PM2 = 40A POWER CONTACT 5.0mm VERT' PC TAIL M80-PM2

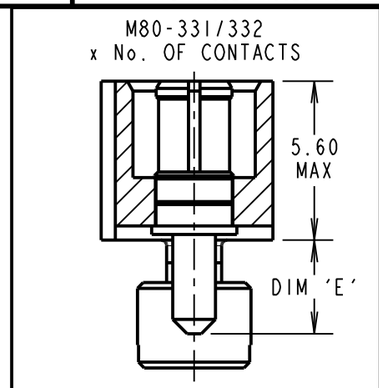
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00
DIM 'D'	M80-311 = 3.0mm, M80-312 = 4.5mm
DIM 'E'	M80-331 = 3.5mm, M80-332 = 5.0mm
DIM 'F'	M80-PMI = 3.5mm, M80-PM2 = 5.0mm

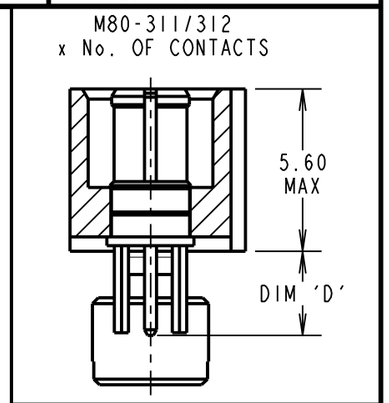
EXAMPLE: CONNECTOR WITH 10 VERTICAL CONTACTS,
M80-5000000M2-10-332-00-000
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm
DIM 'D' = 5.0mm

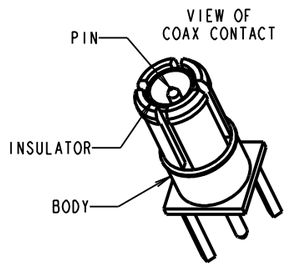
VERTICAL PC TAIL CONTACTS ONLY

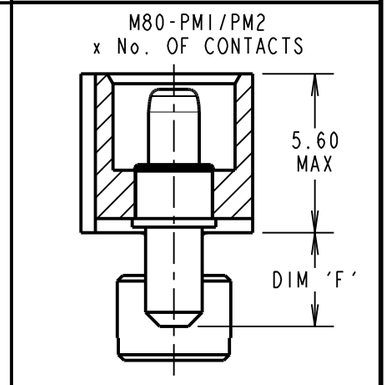




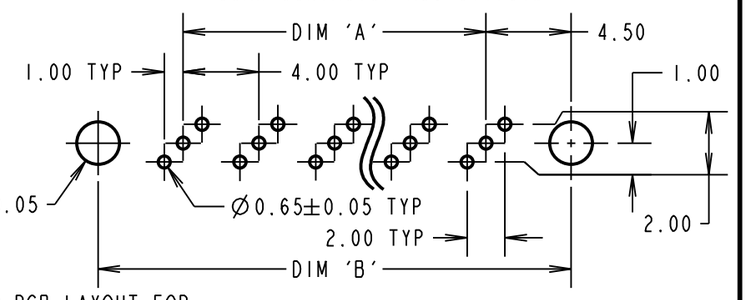




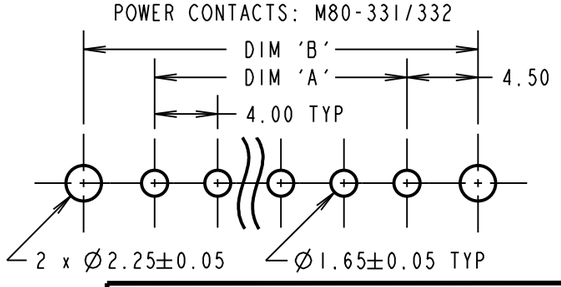




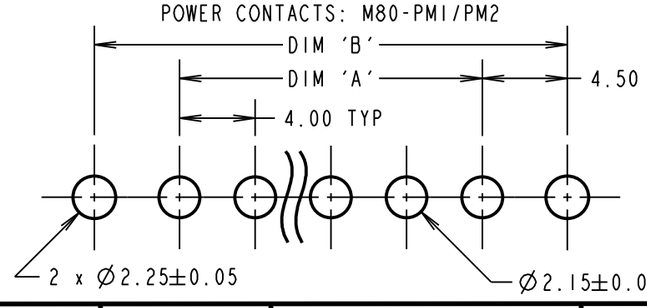
RECOMMENDED PCB LAYOUTS FOR COAX CONTACTS: M80-311/312



RECOMMENDED PCB LAYOUR FOR POWER CONTACTS: M80-331/332



RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-PMI/PM2



MSP	7	11.08.15	12997
NAME	ISS.	DATE	C/NOTE

APPROVED: M.PERREN
CHECKED: S.BENNETT
DRAWN: C.PENROSE
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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

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

TITLE: DATAMATE MIX-TEK MALE ASSEMBLY WITH BOARD MOUNT J-SCREW

DRAWING NUMBER: M80-5000000M2-XX-XXX-00-000

SHT 6 OF 7

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

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Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А