

Customer Information Sheet

DRAWING No.: M80-5000000M2-XX-XXX-00-000

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:

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

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

LOILOK 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

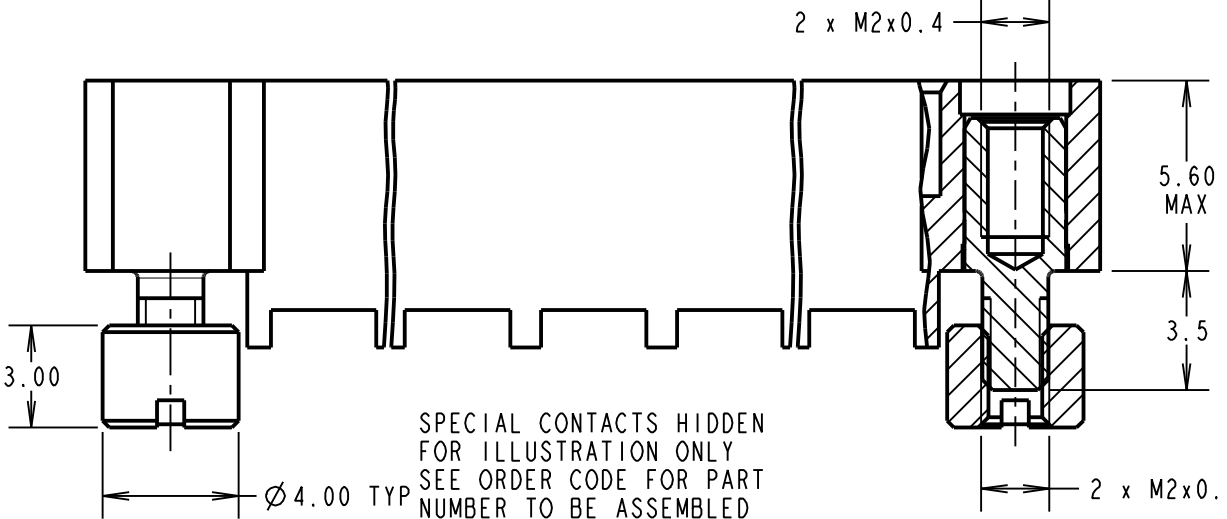
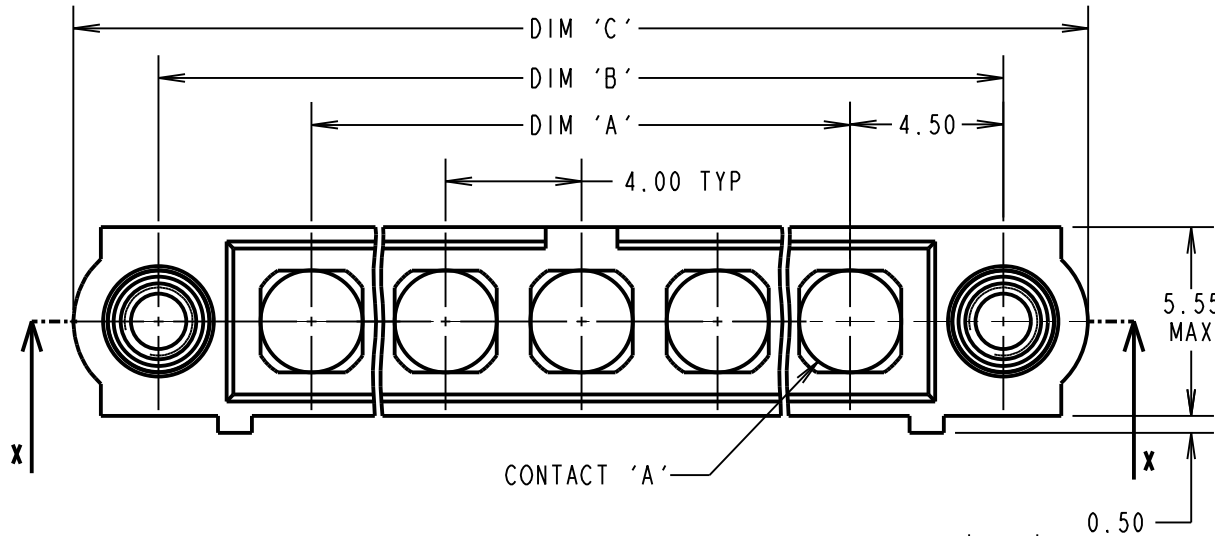
PACKING:

BAG

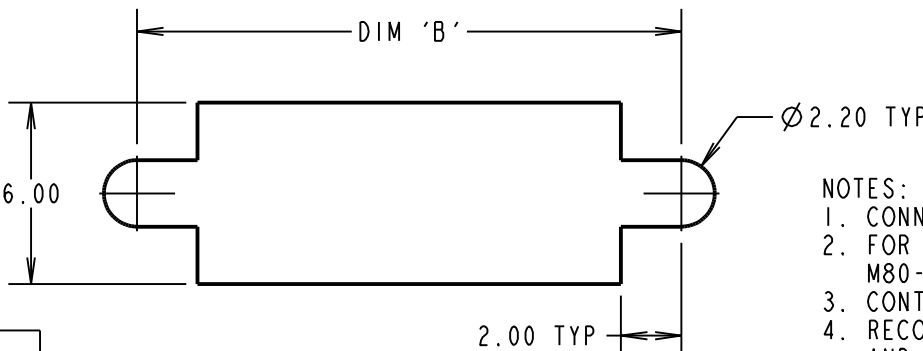
FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION C005XX (LATEST ISSUE)

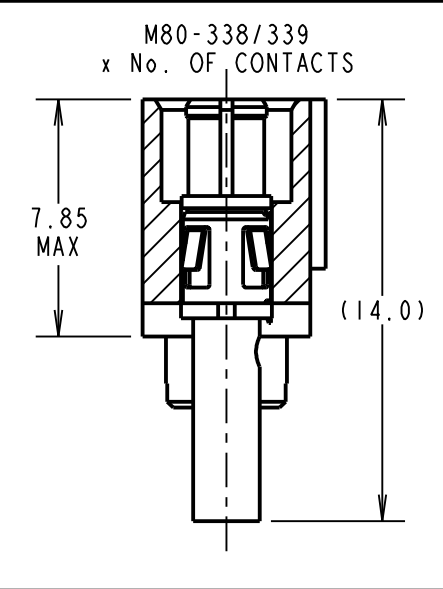
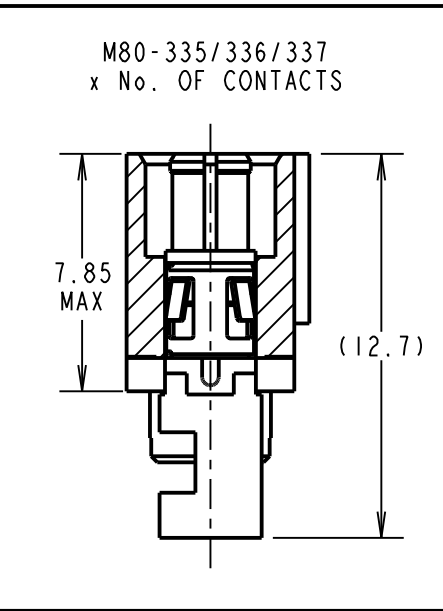
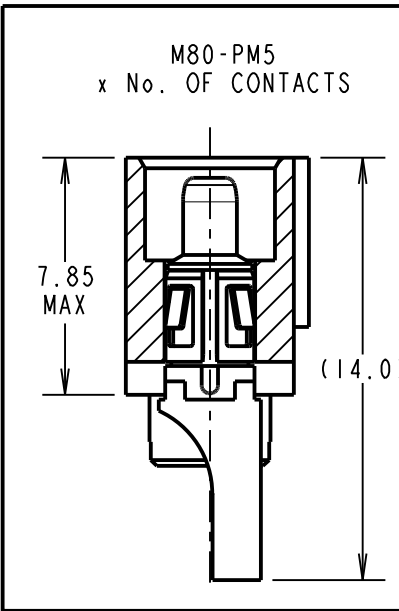
POWER CRIMP/SOLDER CONTACTS ONLY



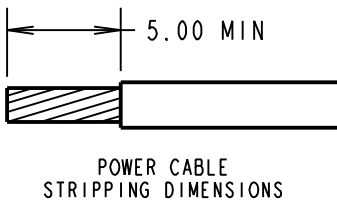
SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY
SEE ORDER CODE FOR PART NUMBER TO BE ASSEMBLED



RECOMMENDED PCB CUT OUT



PART SECTION X-X



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

PM5 = POWER CONTACT 10AWG SOLDER M80-PM5

PM5 = POWER CONTACT 10AWG SOLDER M80-PM5

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PM5 = POWER CONTACT 10AWG SOLDER M80-PM5

PM5 = POWER CONTACT 10AWG SOLDER M80-PM5

NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- FOR EXTRA POWER CONTACTS USE PART NUMBERS:
M80-335/336/337/338/339/PF5.
- CONTACT EXTRACTION TOOL = Z80-290.
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294
AND POSITIONER Z80-295.
- 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 10 POWER CONTACTS, M80-5000000M2-10-335-00-000	
DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm	

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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

MSP	7	11.08.15	12997
NAME	ISS.	DATE	C/NOT
APPROVED:		M.PERREN	
CHECKED:		S.BENNETT	
DRAWN:		C.PENROSE	
CUSTOMER REF.:			
ASSEMBLY DRG:			

Customer Information Sheet

DRAWING No.: M80-5000000M2-XX-XXX-00-000

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
LOILOK 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 = 100M Ω MIN
POWER CONTACT:
CONTACT RESISTANCE = 6m Ω MAX
CURRENT RATING:
M80-311/312 = 20A MAX
M80-331/332 = 20A MAX
M80-PM1/PM2 = 40A MAX
COAX CONTACT:
FREQUENCY RANGE = 6GHz
IMPEDANCE = 50 Ω
V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
CONTACT RESISTANCE = 6m Ω MAX
INSULATION RESISTANCE = 10⁶M Ω @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-PM1/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-PM1/PM2 = -55°C TO +150°C

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

ORDER CODE: (COAX PC TAIL CONTACTS ONLY)

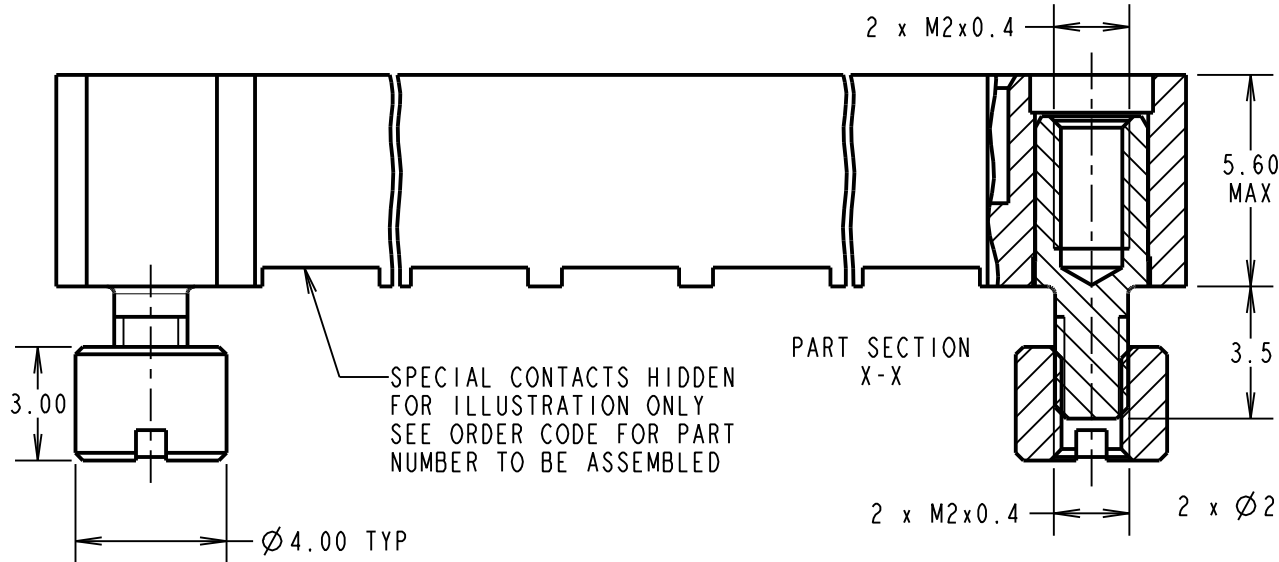
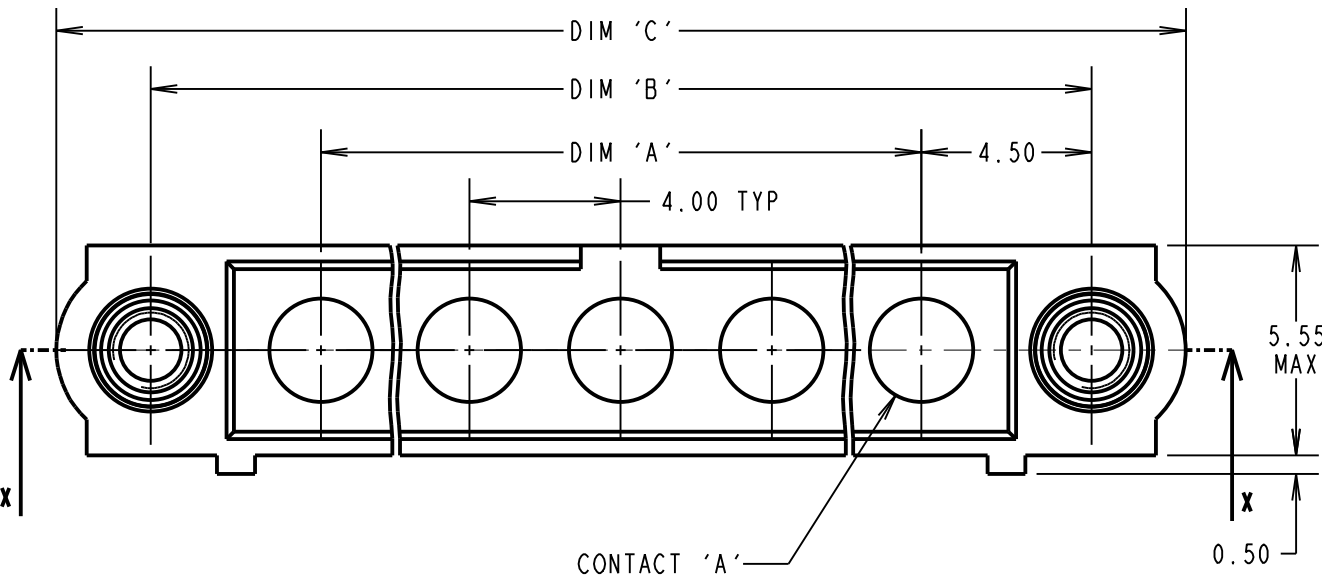
M80-5000000M2-XX-XXX-00-000

TOTAL No. OF CONTACTS
02 TO 12

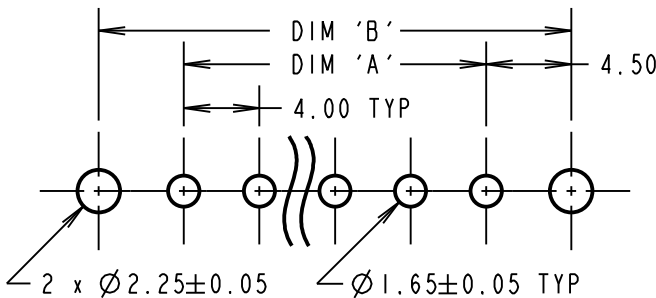
SPECIAL CONTACTS (PC TAIL)

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
PM1 = 40A POWER CONTACT 3.5mm VERT' PC TAIL M80-PM1
PM2 = 40A POWER CONTACT 5.0mm VERT' PC TAIL M80-PM2

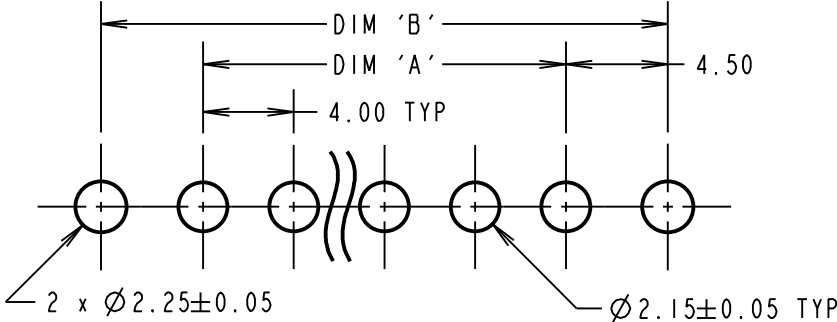
VERTICAL PC TAIL CONTACTS ONLY



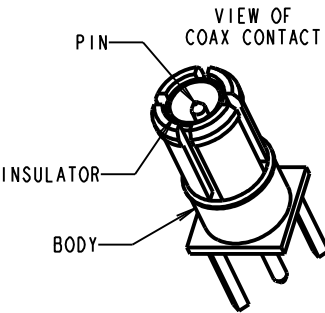
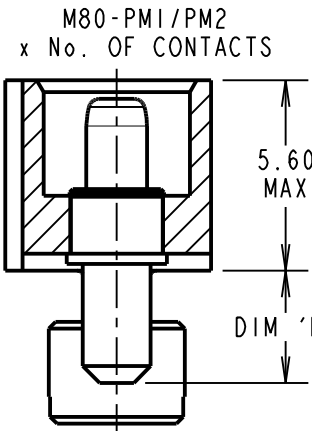
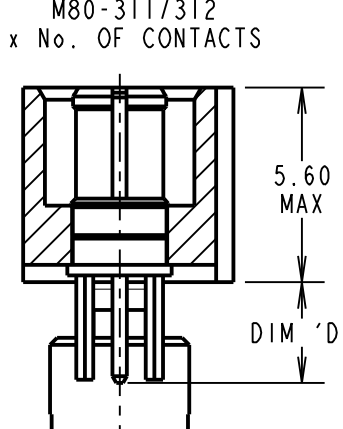
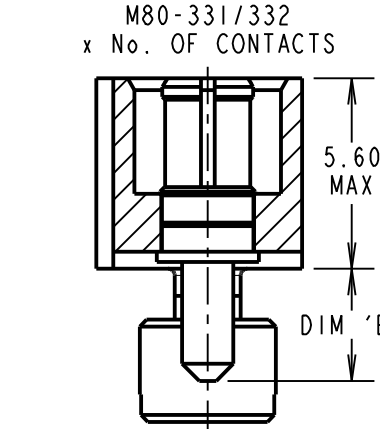
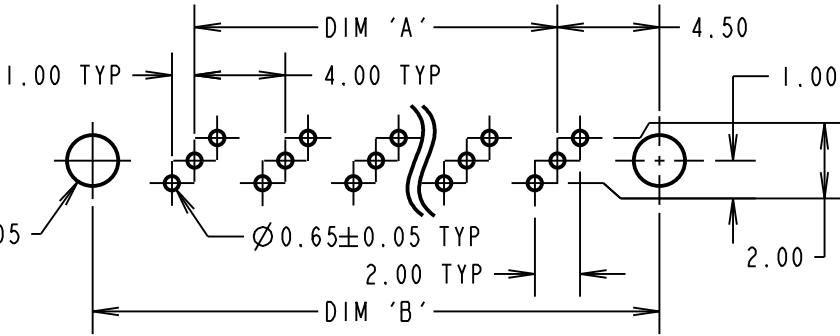
RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-331/332



RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-PM1/PM2



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



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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
MALE ASSEMBLY
WITH BOARD MOUNT J-SCREW

DRAWING NUMBER:

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

SHT

6 OF 7

MSP	7	11.08.15	12997
NAME	ISS.	DATE	C/NOT
APPROVED:		M.PERREN	
CHECKED:		S.BENNETT	
DRAWN:		C.PENROSE	
CUSTOMER REF.:			
ASSEMBLY DRG:			

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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