

Customer Information Sheet

IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:

HOUSING: 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

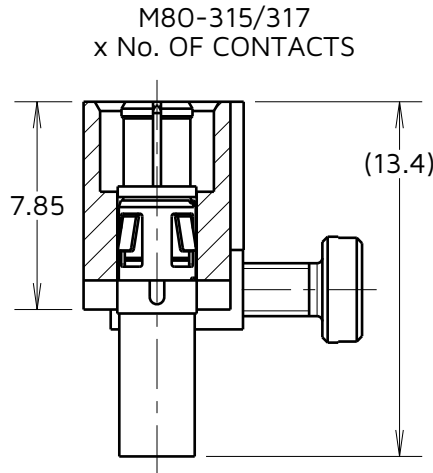
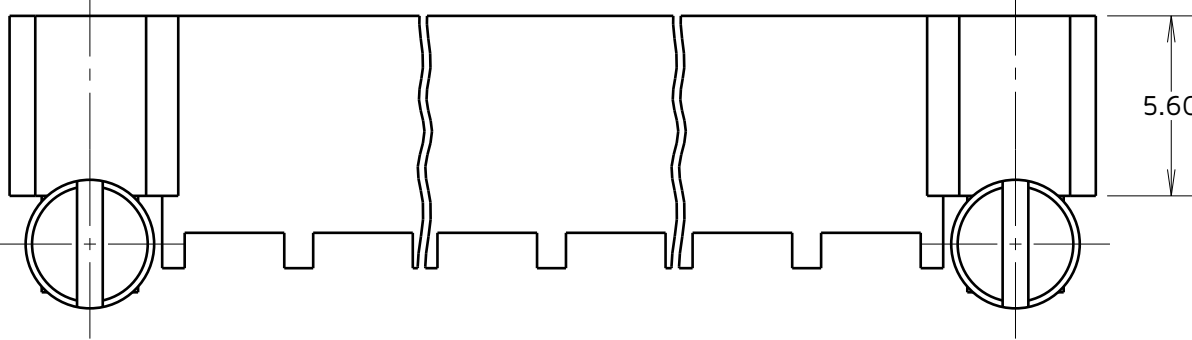
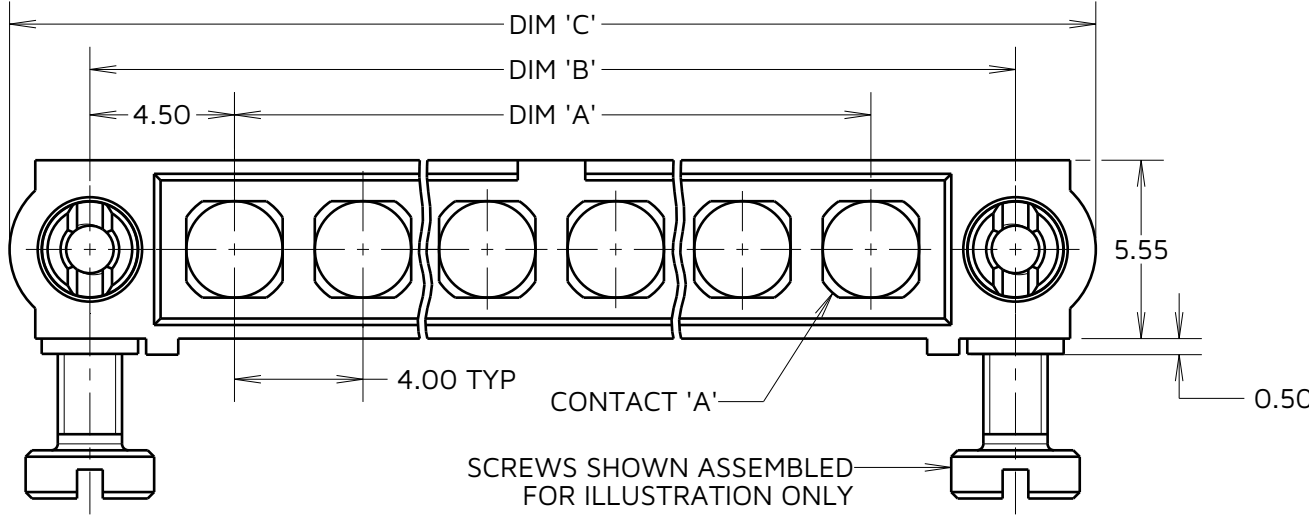
PACKING:

TUBE

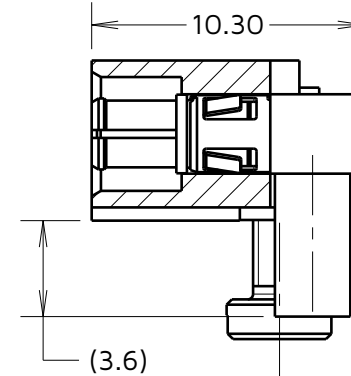
FOR COMPLETE SPECIFICATION SEE COMPONENT

SPECIFICATION CO05XX (LATEST ISSUE)

COAX CRIMP CONTACTS ONLY



M80-315/317
x No. OF CONTACTS



(3.6)

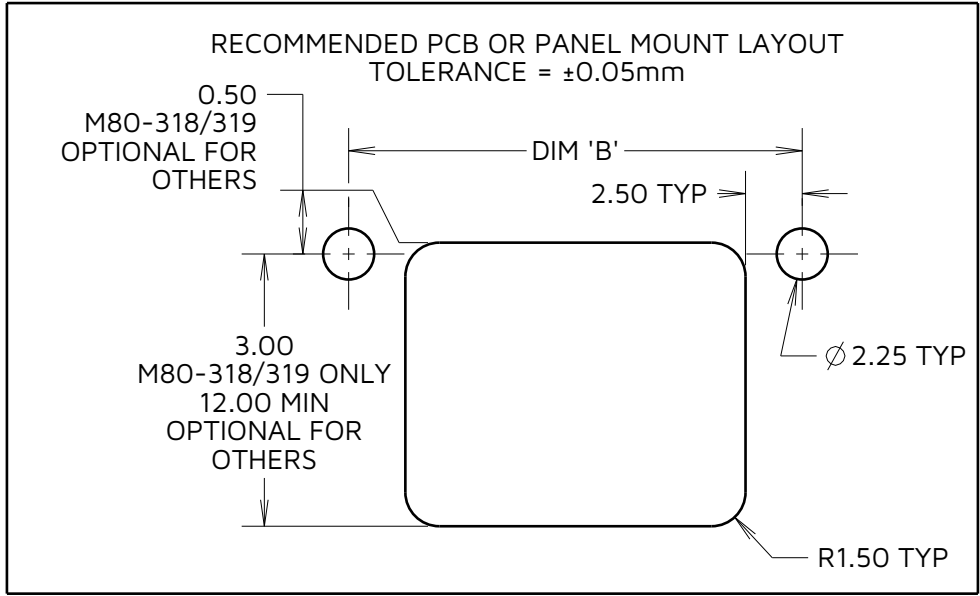
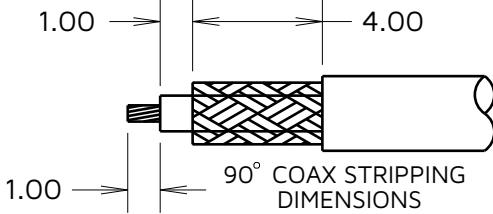
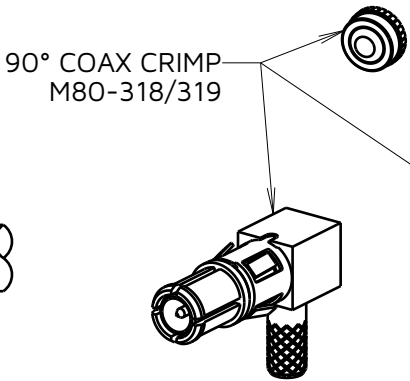
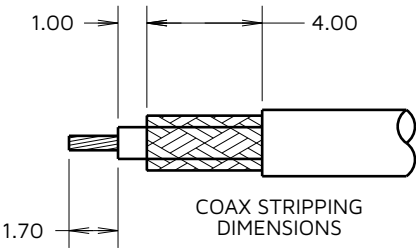
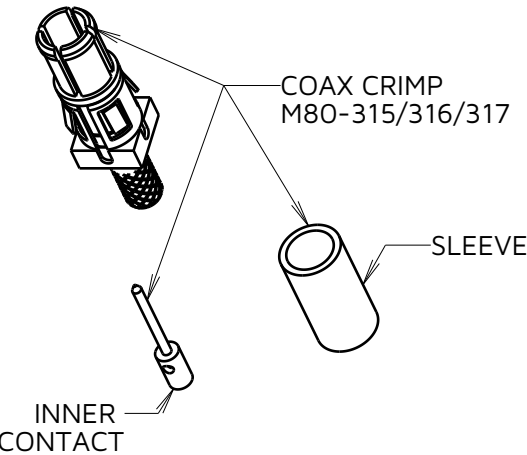


TABLE 1: HOUSING DIMENSION VARIANTS

TOTAL No. OF CONTACTS	DIM 'A'	DIM 'B'	DIM 'C'
2	4.00	13.00	18.00
3	8.00	17.00	22.00
4	12.00	21.00	26.00
5	16.00	25.00	30.00
6	20.00	29.00	34.00
7	24.00	33.00	38.00
8	28.00	37.00	42.00
9	32.00	41.00	46.00
10	36.00	45.00	50.00
11	40.00	49.00	54.00
12	44.00	53.00	58.00



CRIMP/SOLDER NOTES:

- 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.
- FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-315/317/318/319.
- COAX CONTACT EXTRACTION TOOL = Z80-290.
- 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.
- INSTRUCTION SHEETS ARE AVAILABLE.

ORDER CODE: (COAX CRIMP CONTACTS)

M80-5000000MD-XX-XXX-00-000

TOTAL No. OF CONTACTS
02 TO 12

SPECIAL CONTACTS

315 = COAX CONTACT 2.00mm CRIMP M80-315
317 = COAX CONTACT 2.70mm CRIMP M80-317
318 = COAX CONTACT 2.00mm HORIZ' CRIMP M80-318
319 = COAX CONTACT 2.70mm HORIZ' CRIMP M80-319

HARWIN

www.harwin.com

TOLERANCES

X. = $\pm 1\text{mm}$
X.X = $\pm 0.50\text{mm}$
X.XX = $\pm 0.20\text{mm}$
X.XXX = $\pm 0.01\text{mm}$
ANGLES = $\pm 5^\circ$
UNLESS STATED

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.

MATERIAL & FINISH:

SEE ABOVE

TITLE:

DATAMATE MIX-TEK
MALE ASSEMBLY

DRAWING NUMBER:

M80-5000000MD-XX-XXX-00-000

SHT
4
OF
6

MJ	3	29.11.24	34808
NAME	ISS.	DATE	CN/CO
APPROVED:	M. JELLEY		
CHECKED:	R. ALEXANDER		
DRAWN:	S.BENNETT		

Customer Information Sheet

IF IN DOUBT - ASK

©

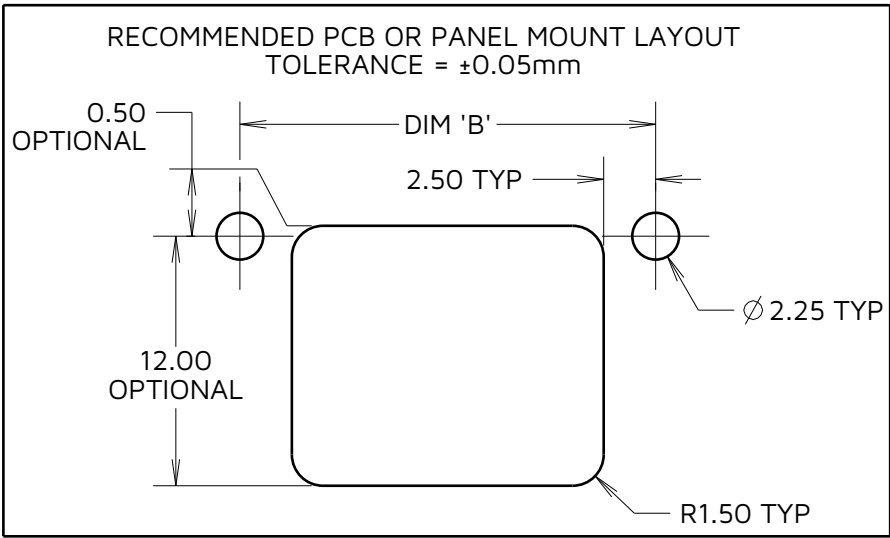
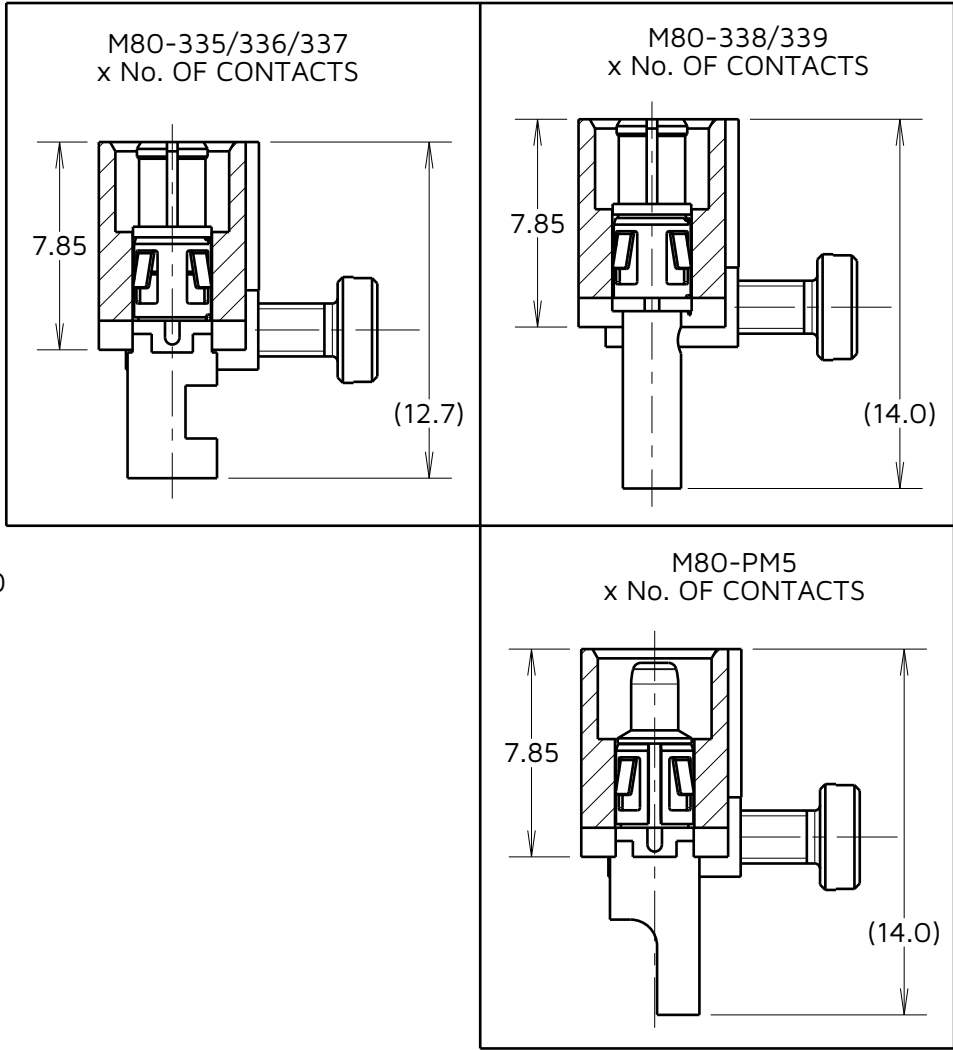
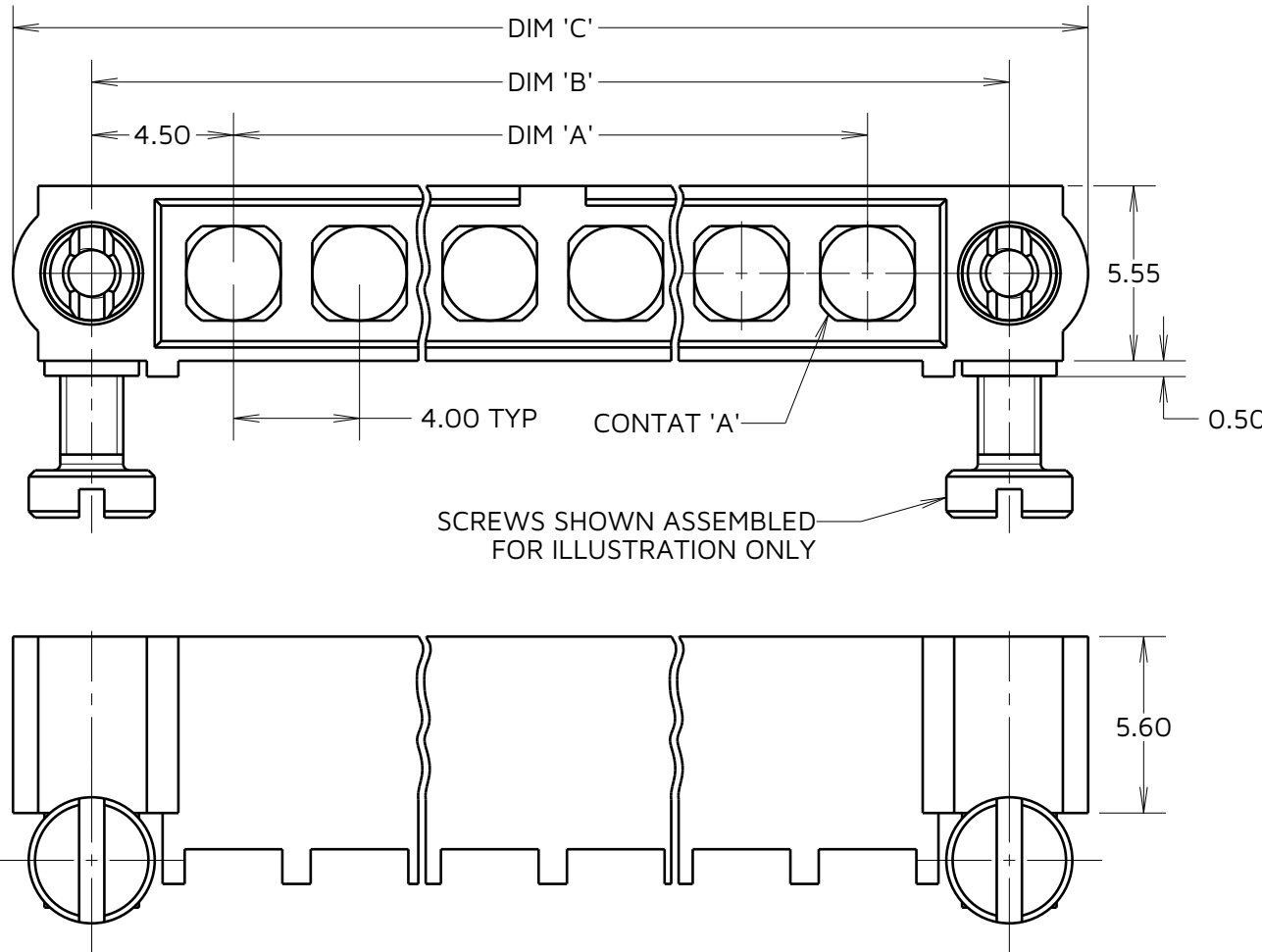
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

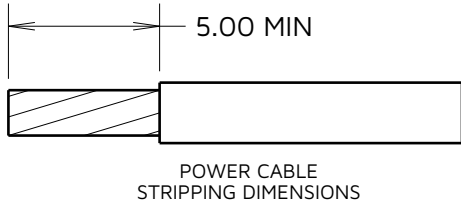
SPECIFICATIONS:
MATERIAL:
HOUSING: GLASS FILLED PPS, UL94V-0, BLACK
POWER CONTACT: COPPER ALLOY
COAX CONTACT:
 BODY = COPPER ALLOY
 INNER CONTACT = COPPER ALLOY
 INSULATOR = PTFE
FINISH:
POWER CONTACT: GOLD
COAX CONTACT: BODY, INNER CONTACT = GOLD
PACKING:
TUBE
FOR COMPLETE SPECIFICATION SEE COMPONENT
SPECIFICATION C005XX (LATEST ISSUE)

POWER CRIMP & SOLDER CONTACTS ONLY



- CRIMP/SOLDER NOTES:**
- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
 - 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 M80-338/339 = Z80-294 AND POSITIONER Z80-295.
 - INSTRUCTION SHEETS ARE AVAILABLE.

TABLE 1: HOUSING DIMENSION VARIANTS			
TOTAL No. OF CONTACTS	DIM 'A'	DIM 'B'	DIM 'C'
2	4.00	13.00	18.00
3	8.00	17.00	22.00
4	12.00	21.00	26.00
5	16.00	25.00	30.00
6	20.00	29.00	34.00
7	24.00	33.00	38.00
8	28.00	37.00	42.00
9	32.00	41.00	46.00
10	36.00	45.00	50.00
11	40.00	49.00	54.00
12	44.00	53.00	58.00



ORDER CODE: (POWER CRIMP/SOLDER CONTACTS)
M80-5000000MD-XX-XXX-00-000

TOTAL No. OF CONTACTS _____
02 TO 12

SPECIAL CONTACTS _____
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

MJ	3	29.11.24	34808
NAME	ISS.	DATE	CN/CO
APPROVED:		M. JELLEY	
CHECKED:		R. ALEXANDER	
DRAWN:		S.BENNETT	

HARWIN

www.harwin.com

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

THIS DRAWING AND ANY
INFORMATION OR DESCRIPTIVE
MATTER SET OUT HEREON ARE
CONFIDENTIAL AND COPYRIGHT
PROPERTY OF THE HARWIN GROUP
AND MUST NOT BE DISCLOSED,
LOANED, COPIED OR USED FOR
MANUFACTURING, TENDERING OR FOR
ANY OTHER PURPOSE WITHOUT THEIR
WRITTEN PERMISSION.

MATERIAL & FINISH:

SEE ABOVE

TITLE:
**DATAMATE MIX-TEK
MALE ASSEMBLY**

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

SHT
5
OF
6

Customer Information Sheet

IF IN DOUBT - ASK

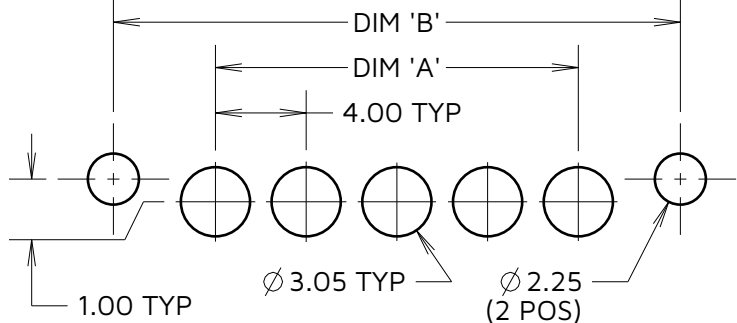
©

NOT TO SCALE

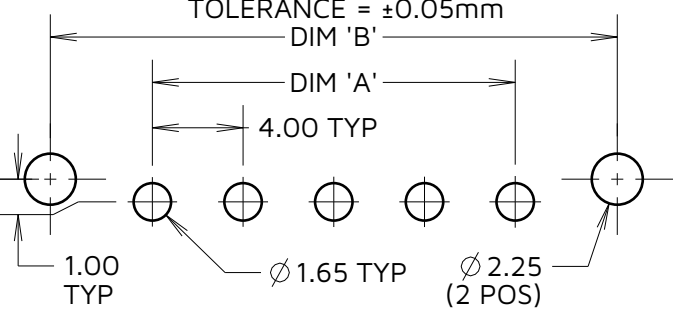
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

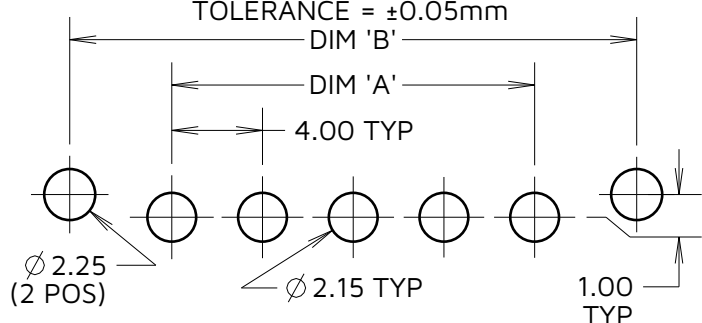
RECOMMENDED PCB LAYOUT FOR POWER SMT: M80-33A TOLERANCE = $\pm 0.05\text{mm}$



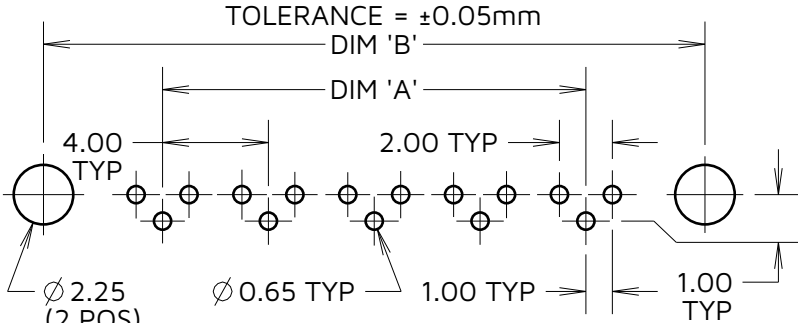
RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-331/332 TOLERANCE = $\pm 0.05\text{mm}$



RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-PM3/PM4 TOLERANCE = $\pm 0.05\text{mm}$



RECOMMENDED PCB LAYOUT FOR COAX CONTACTS: M80-313/314 TOLERANCE = $\pm 0.05\text{mm}$



HORIZONTAL PC TAIL & SMT CONTACTS ONLY

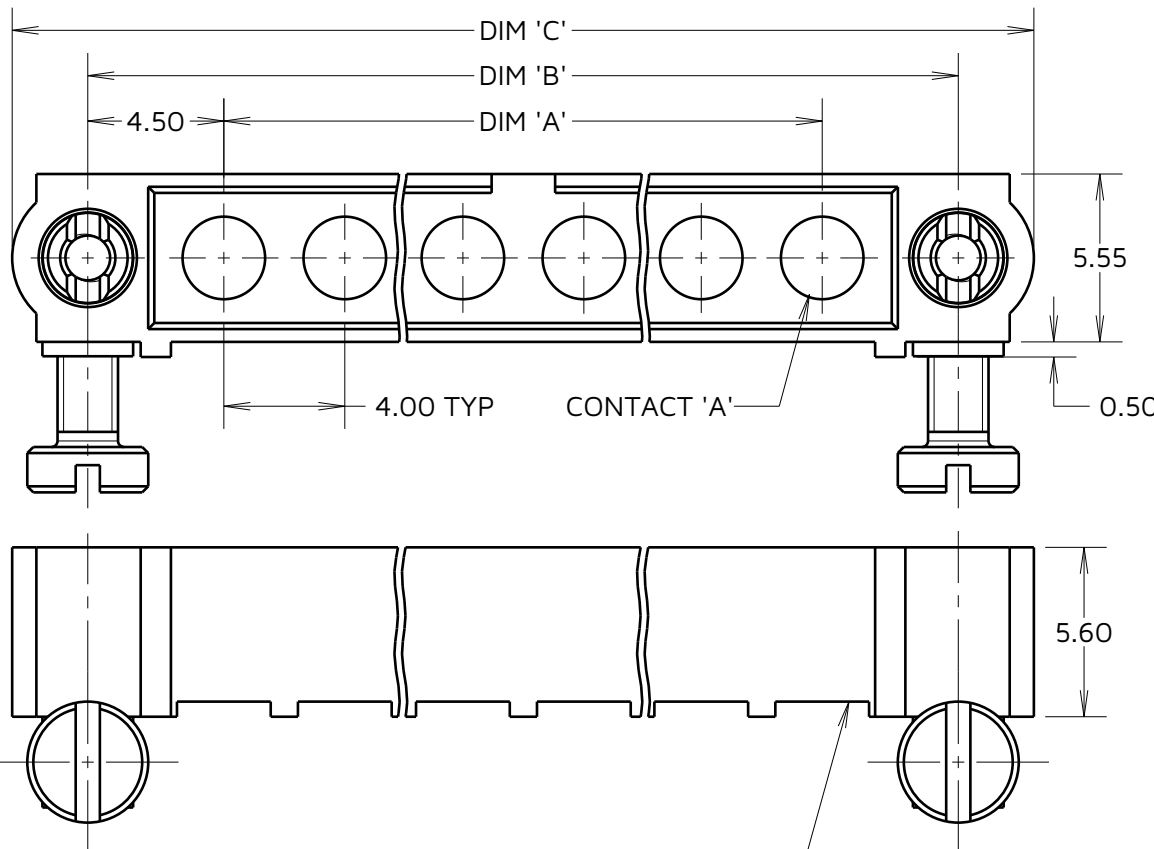


TABLE 1: HOUSING DIMENSION VARIANTS

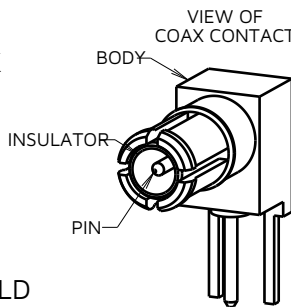
TOTAL No. OF CONTACTS	DIM 'A'	DIM 'B'	DIM 'C'
2	4.00	13.00	18.00
3	8.00	17.00	22.00
4	12.00	21.00	26.00
5	16.00	25.00	30.00
6	20.00	29.00	34.00
7	24.00	33.00	38.00
8	28.00	37.00	42.00
9	32.00	41.00	46.00
10	36.00	45.00	50.00
11	40.00	49.00	54.00
12	44.00	53.00	58.00

TABLE 2: CONTACT DIMENSION VARIANTS

PART No.	DIM 'D'	DIM 'E'	DIM 'F'
M80-313	3.00		
M80-314	4.50		
M80-333		3.50	
M80-334		5.00	
M80-PM3			3.50
M80-PM4			5.00

SPECIFICATIONS:

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



ORDER CODE: (PC TAIL CONTACTS ONLY)
M80-5000000MD-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 HORZ' PC TAIL M80-333
334 = 20A POWER CONTACT 5.0mm HORZ' PC TAIL M80-334
PM3 = 40A POWER CONTACT 3.5mm HORZ' PC TAIL M80-PM3
PM4 = 40A POWER CONTACT 5.0mm HORZ' PC TAIL M80-PM4
33A = POWER CONTACT HORZ' SMT M80-33A

MJ	3	29.11.24	34808
NAME	ISS.	DATE	CN/CO
APPROVED:	M. JELLEY		
CHECKED:	R. ALEXANDER		
DRAWN:	S.BENNETT		

HARWIN

www.harwin.com

TOLERANCES
X. = $\pm 1\text{mm}$
X.X = $\pm 0.50\text{mm}$
X.XX = $\pm 0.20\text{mm}$
X.XXX = $\pm 0.01\text{mm}$
ANGLES = $\pm 5^\circ$
UNLESS STATED

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.

MATERIAL & FINISH:
SEE ABOVE

TITLE:
**DATAMATE MIX-TEK
MALE ASSEMBLY**
DRAWING NUMBER:
M80-5000000MD-XX-XXX-00-000
SHT 6 OF 6