Customer Information Sheet

DRAWING No.: M80-40000000-XX-XXX-00-000 SHEET 5 OF 8 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

FINISH: COAX CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = $100M\Omega$ MIN

COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50Ω

V.S.W.R = 1.05 + (0.04 \times FREQUENCY) GHz MAX

CONTACT RESISTANCE = $6m\Omega$ MAX

INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @ 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

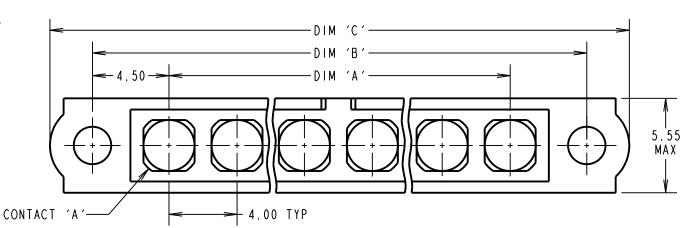
PACKING:

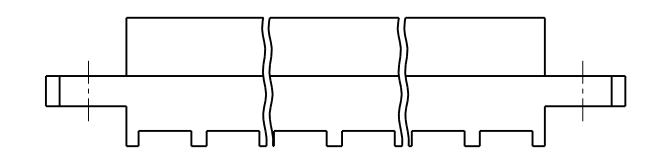
BAG

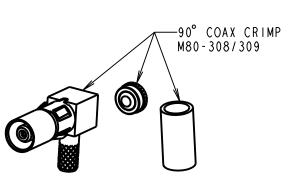
FOR COMPLETE SPECIFICATION SEE COMPONENT

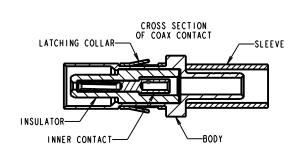
SPECIFICATION COO5XX (LATEST ISSUE)

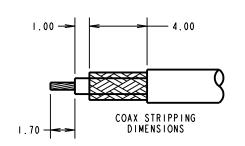
COAX CRIMP CONTACTS ONLY

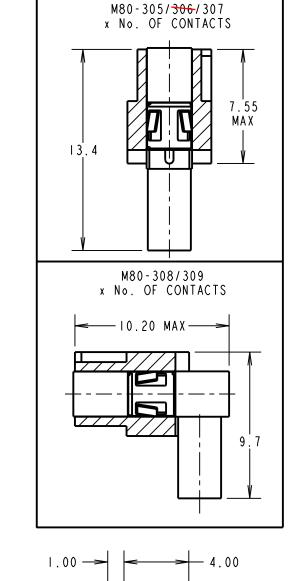


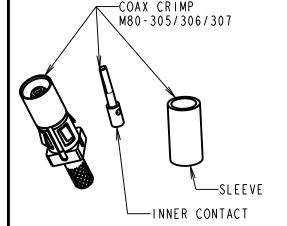












DIMENSION	CALCULATION			
DIM 'A'	4 x No. OF CONTACTS - 4.00			
DIM 'B'	4 x No. OF CONTACTS + 5.00			
DIM 'C'	4 x No. OF CONTACTS + 10.0			

EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-400000000-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm CRIMP/SOLDER NOTES:

I. 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 M80-305/306/307/308/309.

4. COAX 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

ORDER CODE: (COAX CRIMP CONTACTS ONLY) M80-40000000-XX-XXX-00-000 TOTAL No. OF CONTACTS -SPECIAL CONTACTS 305 = COAX CONTACT 2.00mm CRIMP M80-305 COAX CONTACT 2 CRIMP M80

				_	
		MGP	6	10.01.18	21020
		NAME	188.	DATE	C/NOTE
	APPROVED: MGP				
CHECKED: SB DRAWN: C.PENROSE					
				OSE	
	CUSTOMER REF.:				
		ASSEM	MBLY (ORG:	

90° COAX STRIPPING

DIMENSIONS



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OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION

TOLERANCES X. = ±1mm X.X = ±0.50mm $X.XX = \pm 0.10$ mm $.XXX = \pm 0.01$ mm ANGLES = ±5°

UNLESS STATED

S/AREA:

MATERIAL: SEE ABOVE FINISH: SEE ABOVE TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY

DRAWING NUMBER:

M80-400000000-XX-XXX-00-000 OF,

Customer Information Sheet

DRAWING No.: M80-40000000-XX-XXX-00-000 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

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 = $100M\Omega$ MIN

POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ 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 IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT:

INSERTION FORCE

M80-325/326/327/328/329/ 32A/32B/32C = 8N MAX

M80-PF5 = I5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE:

M80-325/326/327/328/329/

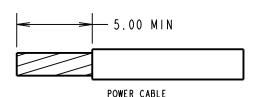
 $32A/32B/32C = -55^{\circ}C TO + 125^{\circ}C$

 $M80-PF5 = -55^{\circ}C TO + 150^{\circ}C$

PACKING:

BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

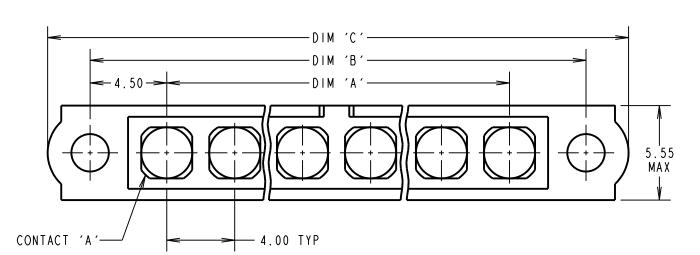


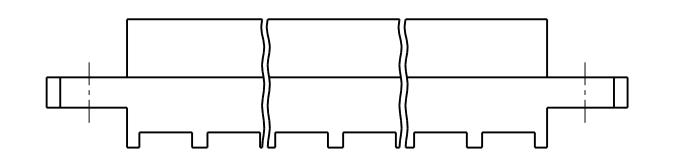
STRIPPING DIMENSIONS

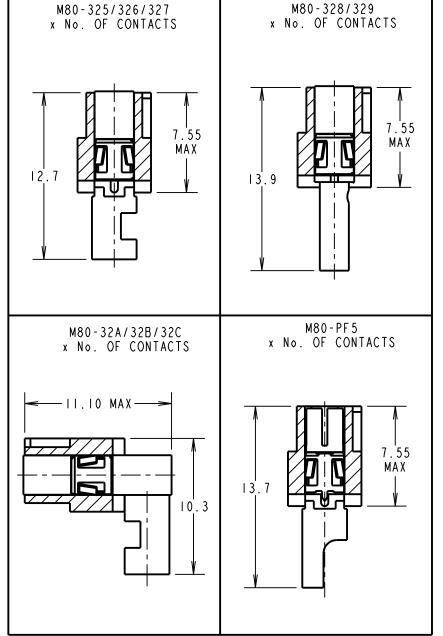
DIMENSION	CALCULATION		
DIM 'A'	4 x No. OF CONTACTS - 4.00		
DIM 'B'	4 x No. OF CONTACTS + 5.00		
DIM 'C'	4 x No. OF CONTACTS + 10.0		

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-500000000-10-325-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

POWER CRIMP & SOLDER CONTACTS ONLY

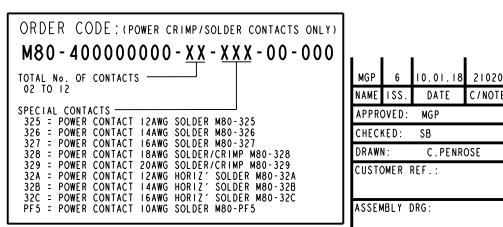






CRIMP/SOLDER NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.
- 2. FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-325/326/327/328/ 329/32A/32B/32C/PM5
 - POWER CONTACT EXTRACTION TOOL = Z80-290
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 AND POSITIONER Z80-295
- 5. INSTRUCTION SHEETS ARE AVAILABLE.





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X.X = ±0.50mm $X.XX = \pm 0.10$ mm $.XXX = \pm 0.01mm$ ANGLES = ±5°

TOLERANCES

X. = ±1mm

MATERIAL: SEE ABOVE FINISH: SEE ABOVE TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY

C/NOTE

DRAWING NUMBER:

M80-400000000-XX-XXX-00-000 0F. OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION UNLESS STATED

Customer Information Sheet

DRAWING No.: M80-400000000-XX-XXX-00-000 SHEET 7 OF 8 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

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 = $6m\Omega$ MAX

CURRENT RATING:

M80-321/322 = 20A MAX M80-PF1/PF2 = 40A MAX

COAX CONTACT:

FREQUENCY RANGE = 6GHz

IMPEDANCE = 50Ω

V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX

CONTACT RESISTANCE = $6m\Omega$ MAX

INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @ 250V AC OPERATING VOLTAGE = 180 V AC @ 500mA

MAXIMUM VOLTAGE = 1000V AC

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT:

INSERTION FORCE: M80-321/322 = 8N MAX

M80-PF1/PF2 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN

COAX CONTACT:

INSERTION FORCE = 8N MAX
WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE

M80-301/302/321/322 = -55°C TO +125°C

M80-PFI/PF2 = -55°C TO +150°C

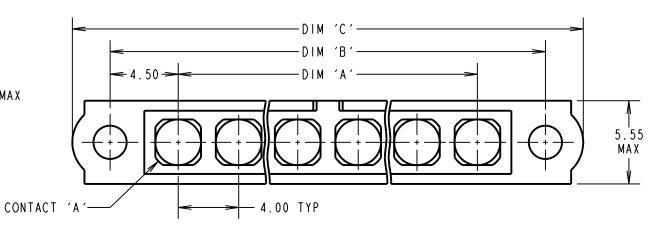
PACKING:

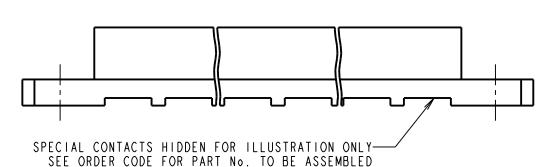
THRE

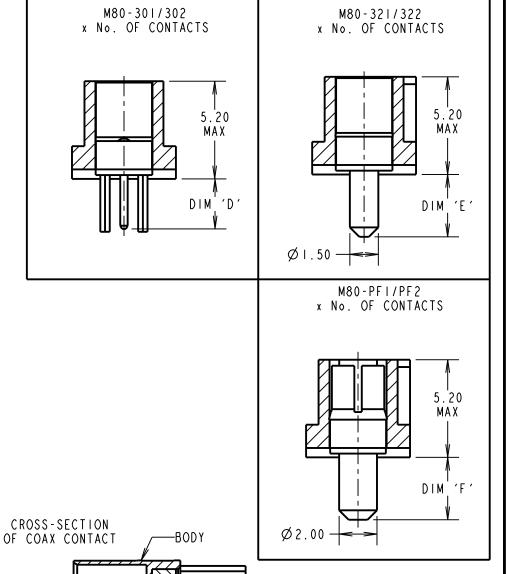
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COOSXX (LATEST ISSUE)

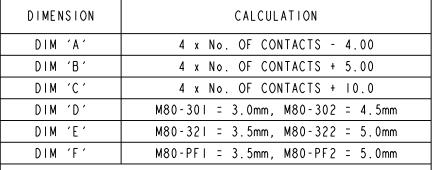
RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-321/322 DIM 'A' 4.00 TYP Ø 1.65±0.05 TYP RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-PF1/PF2 RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-PF1/PF2 POWER CONTACTS: M80-PF1/PF2 ### A contact is a contact in the power contact i

VERTICAL PC TAIL CONTACTS ONLY







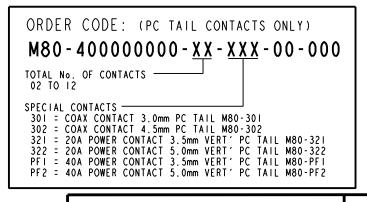


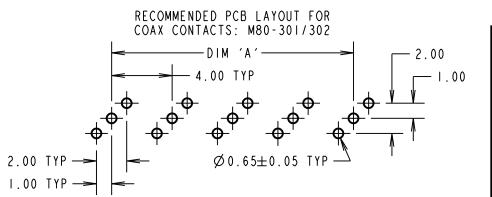
EXAMPLE I: CONNECTOR WITH 08 COAX CONTACTS, M80-40000000-08-301-00-000

DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm DIM 'D' = 3.0mm

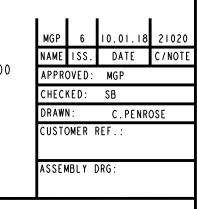
EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-40000000-10-PFI-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm DIM 'F' = 3.5mm





INSULATOR-





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TOLERANCES MATERIAL:

X. = ± 1mm
(X. X = ±0.50mm SEE ABOVE

XX = ±0.10mm
(XX = ±0.01mm
ANGLES = ±5°

MATERIAL:

SEE ABOVE

S/AREA:

TITLE:

DATAMATE MIX-TEK
FEMALE ASSEMBLY

SEE ABOVE

DRAWING NUMBER:

INNER CONTACT

DRAWING NUMBER:

M80-400000000-XX-XXX-00-000

SHT

Customer Information

DRAWING No.: M80-400000000-XX-XXX-00-000 SHEET 8 OF 8 IF IN DOUBT - ASK NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS: MATERIAL:

MOULDING: GLASS FILLED PPS, UL94V-O, 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

ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = $100M\Omega$ MIN

POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ MAX CURRENT RATING:

M80-323/324 = 20A MAXM80-PF3/PF4 = 40A MAX

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT:

INSERTION FORCE:

M80-323/324 = 8N MAX M80-PF3/PF4 = I5N MAX

WITHDRAWAL FORCE = 0.5N MIN

ENVIRONMENTAL:

TEMPERATURE RANGE:

M80-323/324 = -55°C TO +125°C

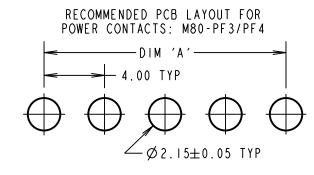
M80-PF3/PF4 = -55°C TO +150°C

PACKING:

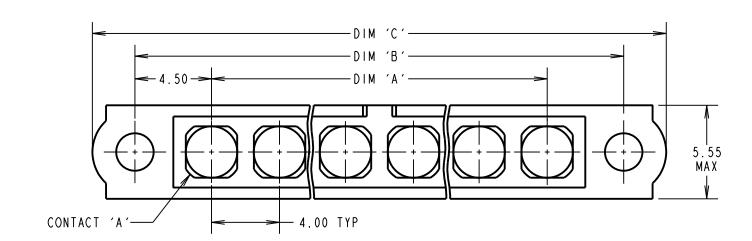
TUBE FOR COMPLETE SPECIFICATION SEE COMPONENT

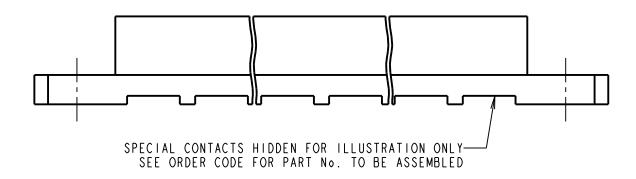
SPECIFICATION COO5XX (LATEST ISSUE)

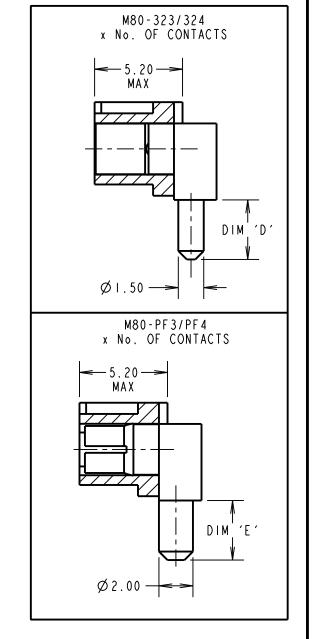
RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-323/324 4.00 TYP \emptyset 1.65 \pm 0.05 TYP



HORIZONTAL PC TAIL & SMT CONTACTS ONLY







		ORDER CODE: (PC TAIL CONTACTS ONLY) M80-40000000-XX-XXX-00-000
DIMENSION	CALCULATION	TOTAL No. OF CONTACTS
DIM 'A'	4 x No. OF CONTACTS - 4.00	SPECIAL CONTACTS
DIM 'B'	4 x No. OF CONTACTS + 5.00	323 = 20A POWER CONTACT 3.5mm HORZ'PC TAIL M80-323 324 = 20A POWER CONTACT 5.0mm HORZ'PC TAIL M80-324
DIM 'C'	4 x No. OF CONTACTS + 10.0	PF3 = 40A POWER CONTACT 3.5mm HORZ PC TAIL M80-PF3 PF4 = 40A POWER CONTACT 5.0mm HORZ PC TAIL M80-PF4
DIM 'D'	M80-323 = 3.5mm, M80-324 = 5.0mm	100 70020 000000 00000000000000000000000
DIM 'E'	M80-PF3 = 3.5mm, M80-PF4 = 5.0mm	THIS DRAWING A

MGP	6	10.01.18	21020
NAME	188.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SB			
DRAWN: C.PENROSE			
CUSTOMER REF.:			
ASSEM	IBLY (ORG:	

EXAMPLE	2: CONNECTOR	WITH IO POWI	ER CONTACTS,	
M80-40000000-10-323-00-000				
DIM 'A' = 36	.00mm, DIM 'B	= 45.00 mm	DIM 'C' = 50.0mm	

DIM 'E' = 3.5 mm

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00-000

X. = ±1mm $X.X = \pm 0.50 mm$ $X.XX = \pm 0.10$ mm .XXX = ±0.01mm ANGLES = ±5° OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION UNLESS STATED

TOLERANCES

MATERIAL: SEE ABOVE FINISH: SEE ABOVE

S/AREA:

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY

DRAWING NUMBER:

M80-400000000-XX-XXX-00-000 ° OF,