Customer Information

DRAWING No.: M80-4000000FE-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: M80-305/306/307

MATERIAL: MOULDING: GLASS FILLED PPS. UL94V-O. BLACK COAX CONTACT:

BODY, SLEEVE, END PLUG = COPPER ALLOY INNER CONTACT.LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFE

GUIDE PIN, SCREW = STAINLESS STEEL

FINISH: COAX CONTACT

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR: = NICKEL **ELECTRICAL:**

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:

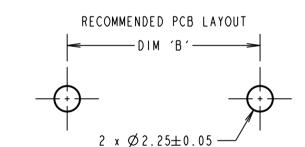
INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN

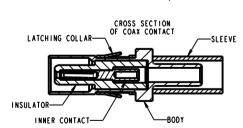
ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

PACKING: BAG

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

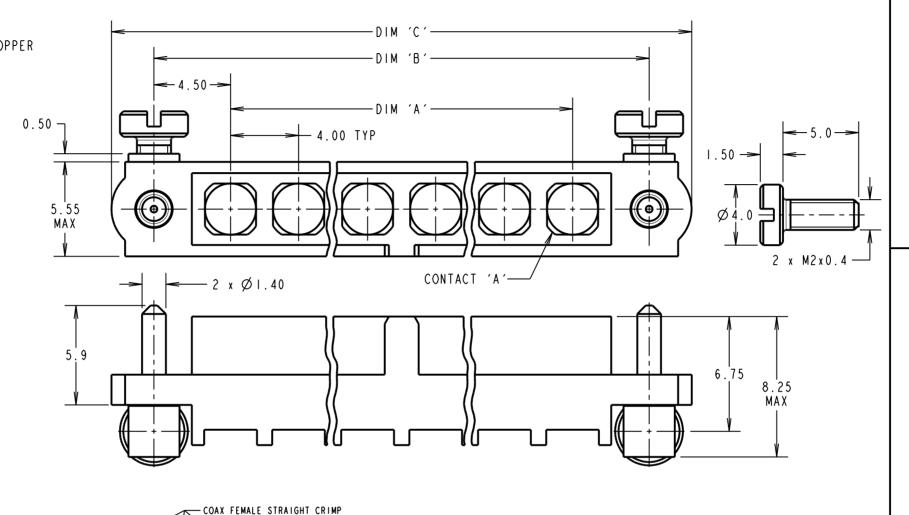


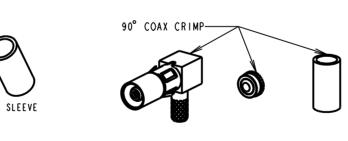


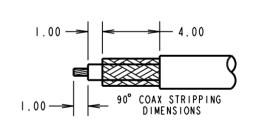
DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.00

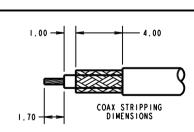
EXAMPLE: CONNNECTOR WITH 08 COAX CONTACTS, M80-400000FE-08-305-00-000 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm. DIM 'C' = 42.00mm

COAX CRIMP AND SOLDER CONTACTS ONLY









NAME ISS.

APPROVED:

CHECKED:

CUSTOMER REF.:

ASSEMBLY DRG:

DRAWN

2 11.05.15 12566

M. PERREN

S.BENNETT

C.PENROSE

DATE

x No. OF CONTACTS

M80-308/309

x No. OF CONTACTS

(13.4)

10.3

MAX

BODY ASSEMBLY

ORDER CODE: (COAX CRIMP/SOLDER)

M80-400000FE-XX-XXX-00-000

INNER CONTACT

TOTAL No. OF CONTACTS: _ 02 TO 12

SPECIAL CONTACTS:

305 = COAX CONTACT CRIMP 2.0mm M80-305 306 = COAX CONTACT CRIMP 2.4mm M80-306 307 = COAX CONTACT CRIMP 2.7mm M80-307

308 = 90° COAX CONTACT CRIMP/SOLDER 2.0mm M80-308 309 = 90° COAX CONTACT CRIMP/SOLDER 2.7mm M80-309

NOTES:

I. CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE.

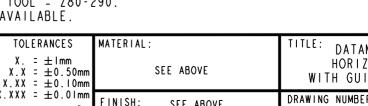
2. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE.

3. FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309.

4. RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR COAX SLEEVE = Z80-293.

5. COAX CONTACT EXTRACTION TOOL = Z80-290.

6. INSTRUCTION SHEETS ARE AVAILABLE.



DATAMATE MIX-TEK FEMALE HORIZONTAL POWER ASSEMBLY WITH GUIDE PINS AND BOARD MOUNT DRAWING NUMBER:

www.harwin.com technical@harwin.com

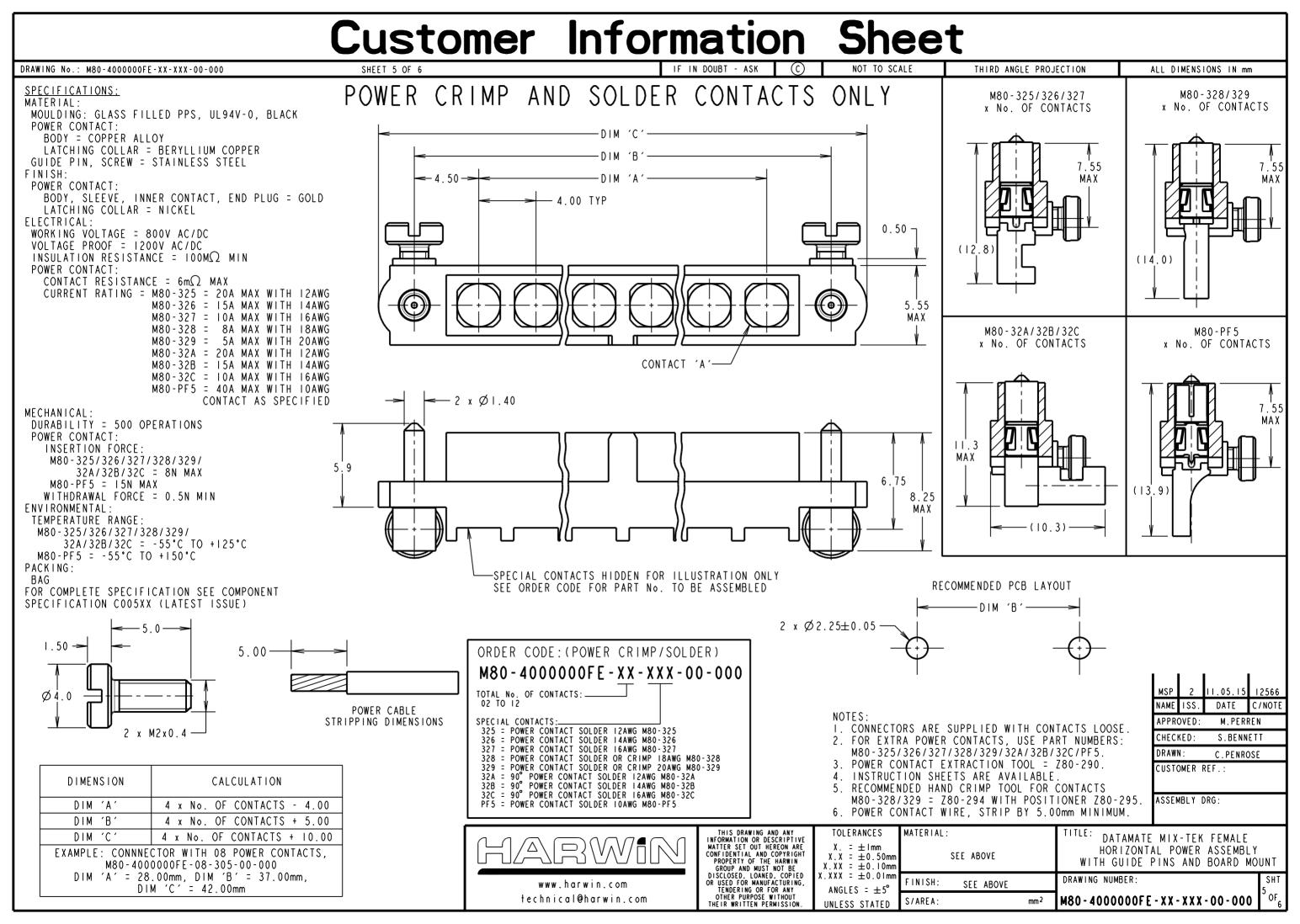
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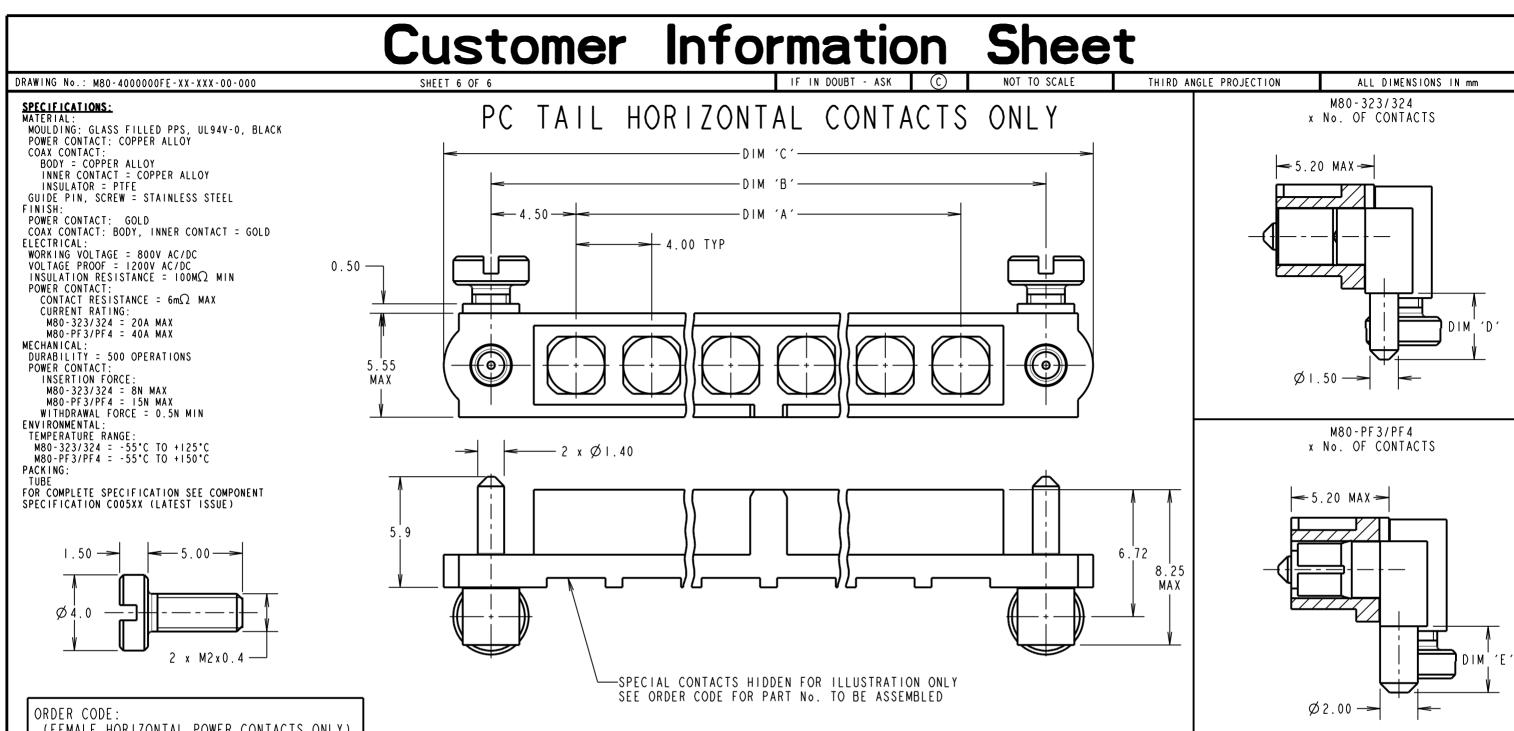
X.XXX = ±0.01mm

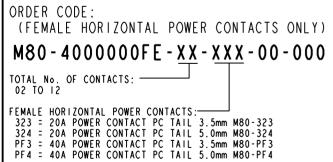
UNLESS STATED

S/AREA:

SEE ABOVE M80-4000000FE-XX-XXX-00-000







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'	M80-323 = 3.50mm, M80-324 = 5.00mm
DIM 'E'	M80-PF3 = 3.50mm, M80-PF4 = 5.00mm

EXAMPLE I: CONNECTOR WITH 10 POWER CONTACTS 3.5mm, M80-400000FE-I0-323-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM'D' = 3.50mm

RECOMMENDED PCB LAYOUT FOR POWER CONTACTS: M80-323/324 POWER CONTACTS: M80-PF3/PF4 4.50 4.50 4.00 TYP 4.00 TYP r I.00 1.00 Ø2,25±0,05 TYP Ø1.65±0.05 TYP \emptyset 2.15±0.05 TYP \emptyset 2.25 \pm 0.05 TYP

TOLERANCES X. = ±1mm $X.X = \pm 0.50 mn$ X.XX = ±0.10mm $X.XXX = \pm 0.01$ mm

MATERIAL: FINISH:

SEE ABOVE

DATAMATE MIX-TEK FEMALE HORIZONTAL POWER ASSEMBLY WITH GUIDE PINS AND BOARD MOUNT

NAME ISS.

APPROVED:

CHECKED:

CUSTOMER REF.:

ASSEMBLY DRG:

DRAWN

11.05.15 12566

C/NOTE

DATE

M.PERREN

S.BENNETT

C.PENROSE

DRAWING NUMBER:

SEE ABOVE

www.harwin.com

technical@harwin.com

RECOMMENDED PCB LAYOUT FOR

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S/AREA:

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