

Customer Information Sheet

DRAWING No.: G125-MHXXX05L7R

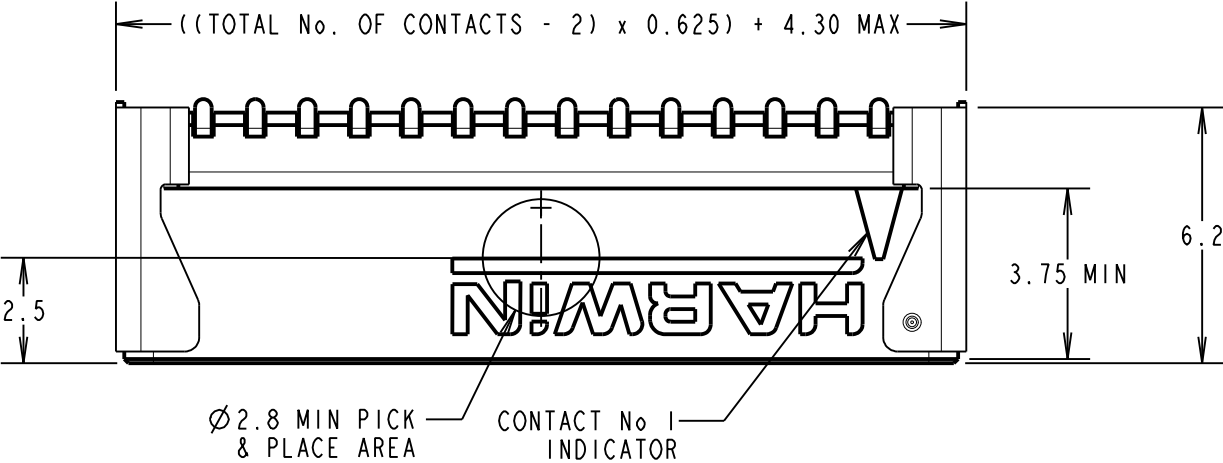
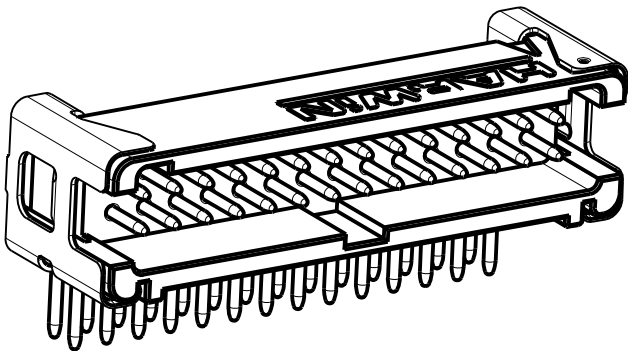
IF IN DOUBT - ASK

C

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

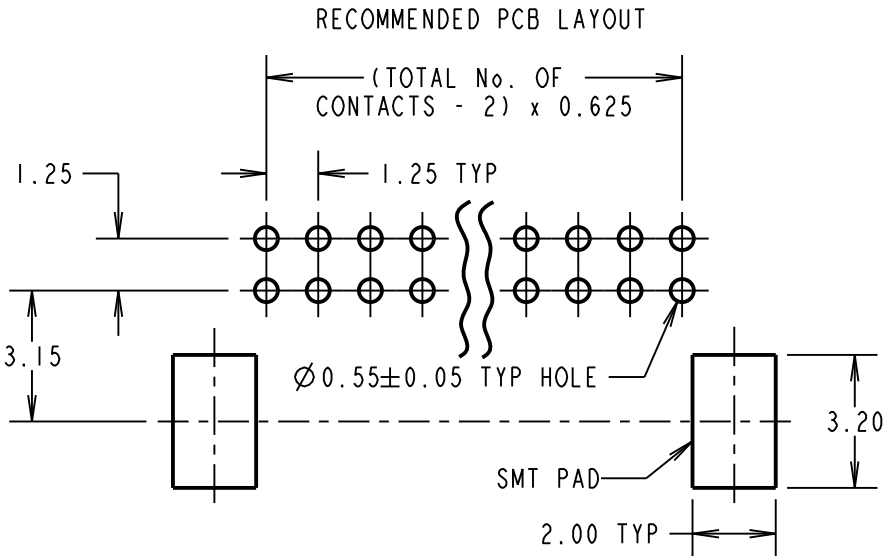
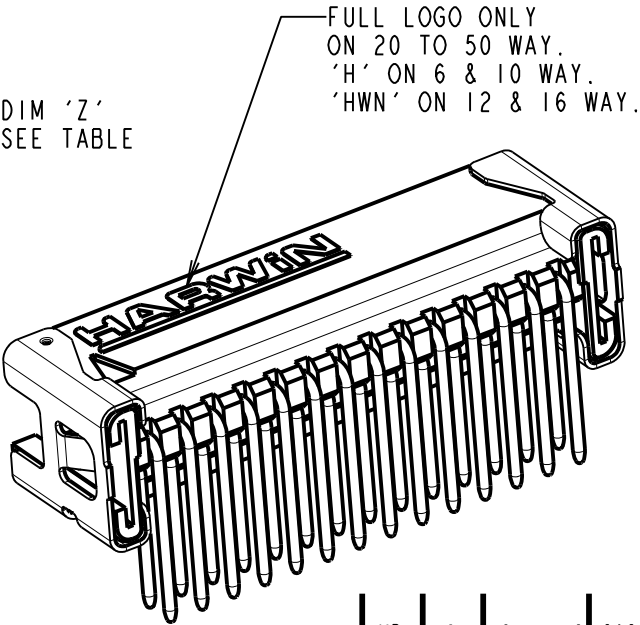
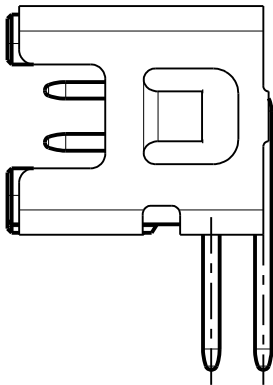
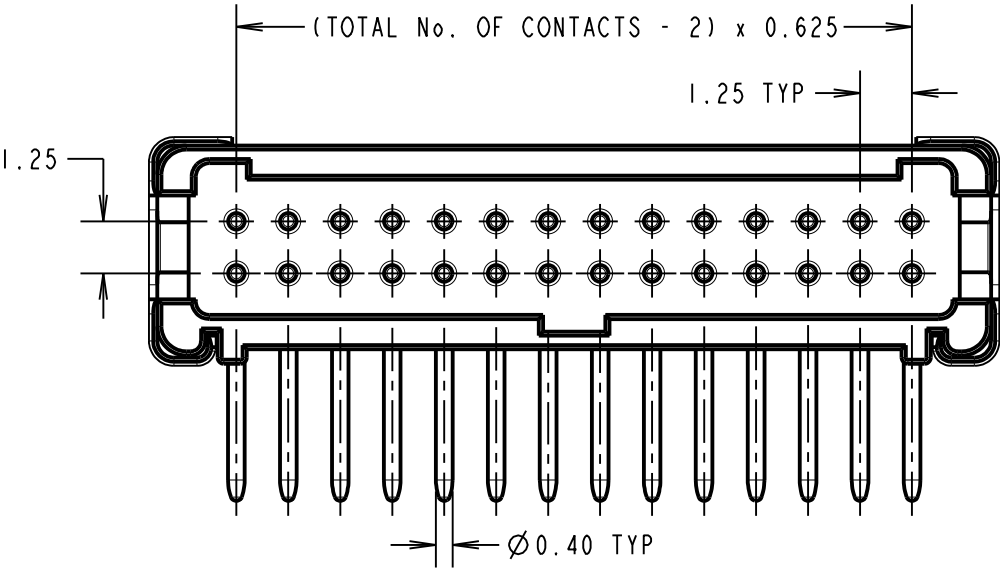
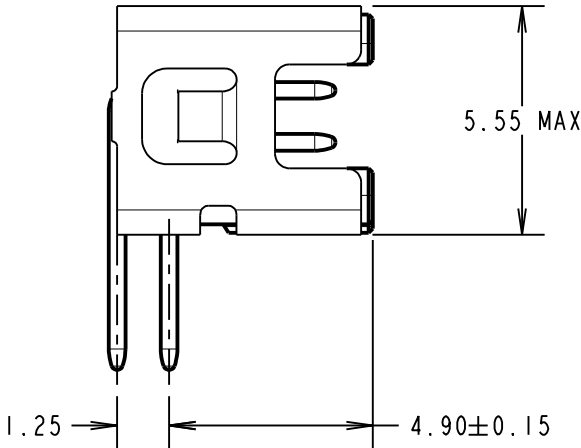


ORDER CODE:  
**G125-MHXXX05L7R**

3.3mm PC-TAILS = H1  
4.8mm PC-TAILS = H2

TOTAL No. OF CONTACTS  
06, 10, 12, 16, 20,  
26, 34, 50.

| CONTACT STYLE | DIM 'Z'  |
|---------------|----------|
| H1            | 3.3±0.15 |
| H2            | 4.8±0.15 |



CONNECTOR DETAILS AND PCB LAYOUT ONLY.  
SEE SHEET 6 FOR TAPE AND REEL DETAILS.

NOTES:  
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).  
SEE G125-SERIES CONNECTORS' SPECIFICATION SHEET FOR MATERIALS, FINISH AND SPECIFICATION SUMMARY.

|                       |      |          |        |
|-----------------------|------|----------|--------|
| MR                    | 2    | 13.11.18 | 20862  |
| NAME                  | ISS. | DATE     | C/NOTE |
| APPROVED: M.RUDKIN    |      |          |        |
| CHECKED: M.PLESTED    |      |          |        |
| DRAWN: MARK G PLESTED |      |          |        |
| CUSTOMER REF.:        |      |          |        |
| ASSEMBLY DRG:         |      |          |        |

[www.harwin.com](http://www.harwin.com)  
[technical@harwin.com](mailto: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 NOTE 1

FINISH: SEE NOTE 1

S/AREA: mm<sup>2</sup>

TITLE:  
G125 MALE HORIZONTAL PC TAIL  
SERIES IN TAPE & REEL

DRAWING NUMBER:  
**G125-MHXXX05L7R**

SHT 5 OF 6

# Customer Information Sheet

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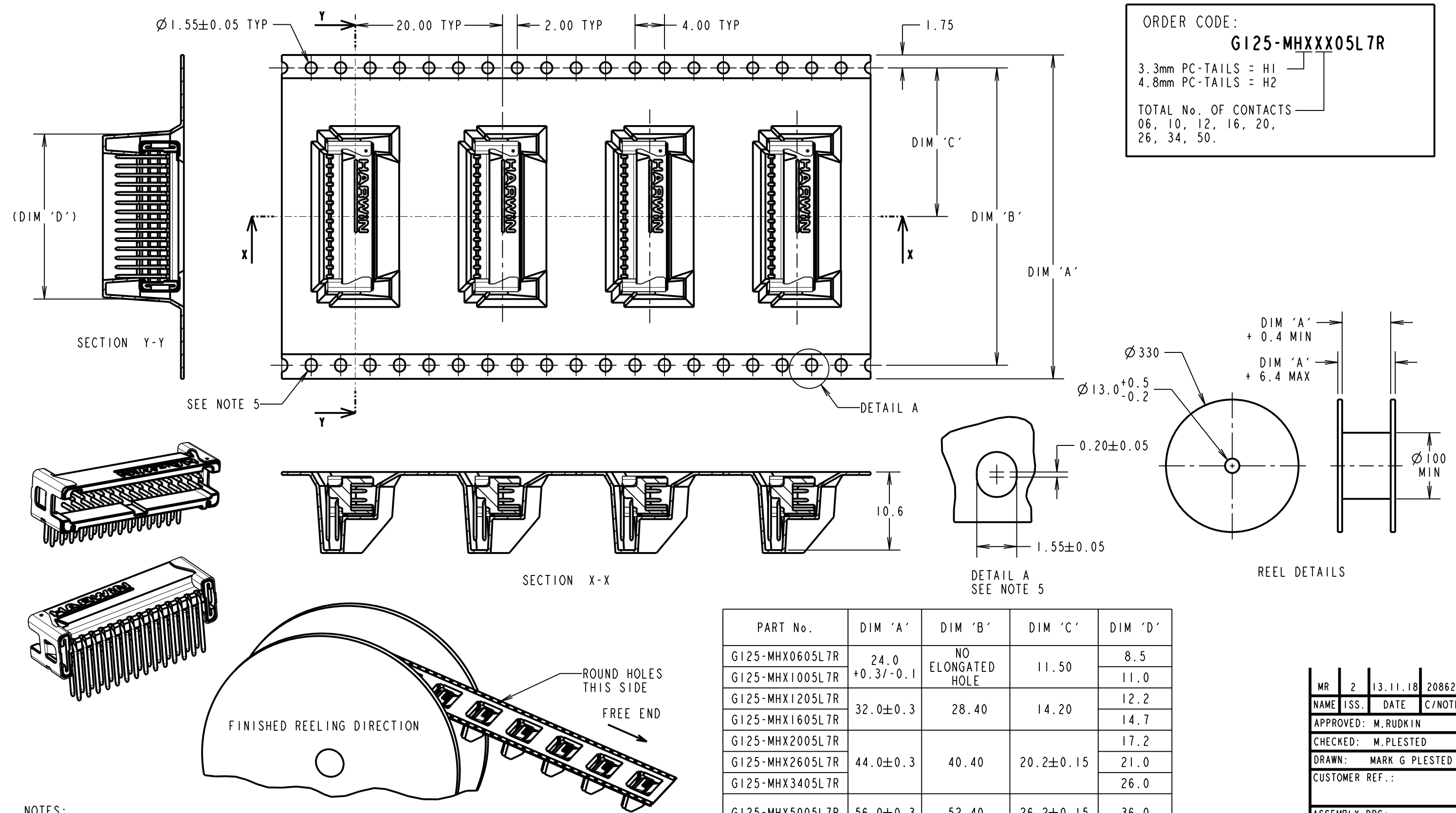
IF IN DOUBT - ASK

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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



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TOLERANCES  
X. =  $\pm 1$ mm  
X.X =  $\pm 0.50$ mm  
X.XX =  $\pm 0.10$ mm  
X.XXX =  $\pm 0.01$ mm  
ANGLES =  $\pm 5^\circ$   
UNLESS STATED

MATERIAL:

SEE SHEET 5

FINISH: SEE SHEET 5

S/AREA:

mm<sup>2</sup>

TITLE:

G125 MALE HORIZONTAL PC TAIL  
SERIES IN TAPE & REEL

DRAWING NUMBER:

**G125-MHXXX05L7R**

SHT

6 OF 6

|                       |      |          |        |
|-----------------------|------|----------|--------|
| MR                    | 2    | 13.11.18 | 20862  |
| NAME                  | ISS. | DATE     | C/NOTE |
| APPROVED: M.RUDKIN    |      |          |        |
| CHECKED: M.PLESTED    |      |          |        |
| DRAWN: MARK G PLESTED |      |          |        |
| CUSTOMER REF.:        |      |          |        |
| ASSEMBLY DRG:         |      |          |        |

# Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

## SPECIFICATIONS:

### MATERIALS:

MOULDING, PICK & PLACE CAP:  
POLYAMIDE, PA4T-GF30 FR(40) UL94V-0,  
HALOGEN FREE, FREE OF RED PHOSPHORUS

### CONTACTS:

MALE PC-TAIL/SMT = PHOSPHOR BRONZE  
MALE CRIMP = BRASS  
ALL FEMALE CONTACTS = COPPER ALLOY

### LOCKING HARDWARE:

LATCHES: COPPER NICKEL TIN ALLOY  
SCREW LOCK: STAINLESS STEEL

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):  
STYCAST 2651 MM BACK POTTING WITH CATALYST 9

### FINISH:

ALL CONTACTS:  
0.2-0.3 $\mu$  GOLD OVER NICKEL  
LATCHES:  
3.0 $\mu$  100% TIN OVER NICKEL

### MECHANICAL:

DURABILITY = 1000 OPERATIONS  
INSERTION FORCE = 2.8N MAX  
WITHDRAWAL FORCE = 0.2N MIN

### ENVIRONMENTAL:

CLASSIFICATION: 65/150/56 DAYS AT 93% RH

### TEMPERATURE RANGE:

EIA-364-32 : 2000 TEST CONDITION IV, DWELL  
30mins, 5 CYCLES -65°C TO +150°C

\* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:  
10Hz TO 2000Hz, 1.5MM, 198 mm/s<sup>2</sup> (20G). DURATION 2Hr

\* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s<sup>2</sup>  
(100G) FOR 6ms IN Z AXIS, 490 mm/s<sup>2</sup> (50G) FOR 11ms IN X & Y AXIS.

\* EIA-364-01A : 2000: ACCELERATION: 490 mm/s<sup>2</sup> (50G)  
\* BUMP SEVERITY: 390 mm/s<sup>2</sup> (40G), 4000 $\pm$  10 BUMPS  
\* TESTED WITH LATCHED CONNECTORS

### ELECTRICAL:

#### CURRENT RATING:

EIA-364-70A : 1998: INDIVIDUAL CONTACT IN ISOLATION AT 25°C = 2.8A MAX  
EIA-364-70A : 1998: ALL CONTACTS SIMULTANEOUSLY AT 25°C = 2.0A MAX

#### CONTACT RESISTANCE:

EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20m $\Omega$  MAX  
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25m $\Omega$  MAX

#### WORKING VOLTAGE:

EIA-364-20C : 2004: SEA LEVEL (1006mbar) = 450V DC/AC PEAK  
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar) = 250V DC/AC PEAK

VOLTAGE PROOF AT SEA LEVEL (1013mbar) = 600V DC/AC PEAK

#### INSULATION RESISTANCE:

EIA-364-21C : 2000: INSULATION RESISTANCE (INITIAL)  
= 10 G $\Omega$  MIN AT 500V DC  
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING)  
= >1 G $\Omega$  MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

PATENT PENDING  
UK 1205109.0



|                |      |          |        |
|----------------|------|----------|--------|
| MGP            | 4    | 22.06.17 | 20668  |
| NAME           | ISS. | DATE     | C/NOTE |
| APPROVED: MGP  |      |          |        |
| CHECKED: SB    |      |          |        |
| DRAWN:         |      | S.FLOWER |        |
| CUSTOMER REF.: |      |          |        |
| ASSEMBLY DRG:  |      |          |        |

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#### TOLERANCES

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

#### MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA: mm<sup>2</sup>

#### TITLE:

G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER:

G125-SERIES CONNECTORS

SHT  
1 OF 1

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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