

Customer Information Sheet

DRAWING No.: G125-MHXXX05L5R

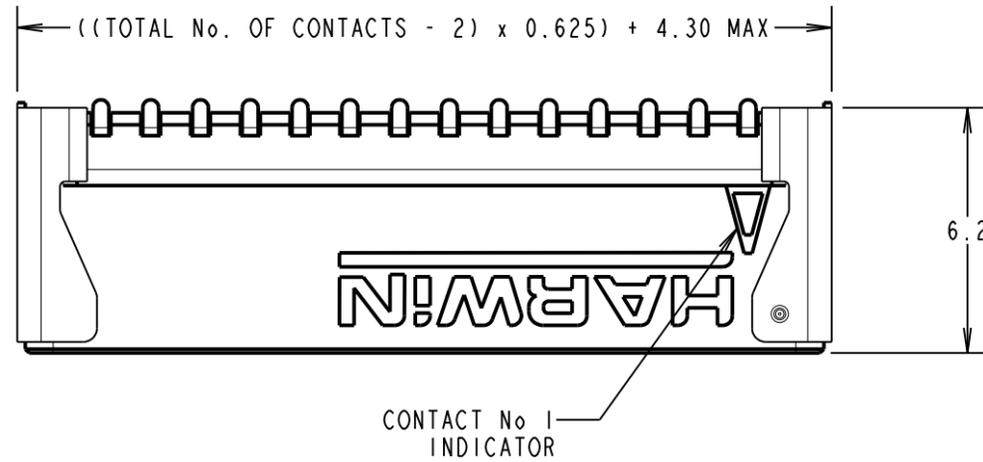
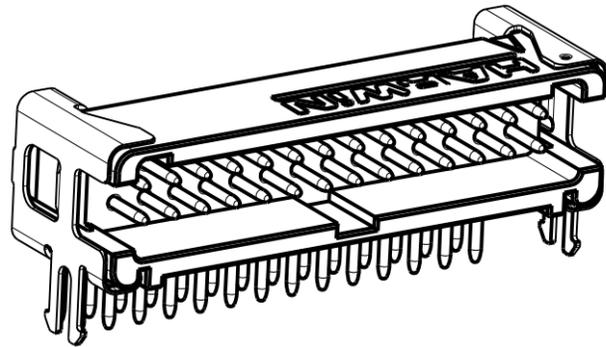
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



ORDER CODE: **G125-MHXXX05L5X**

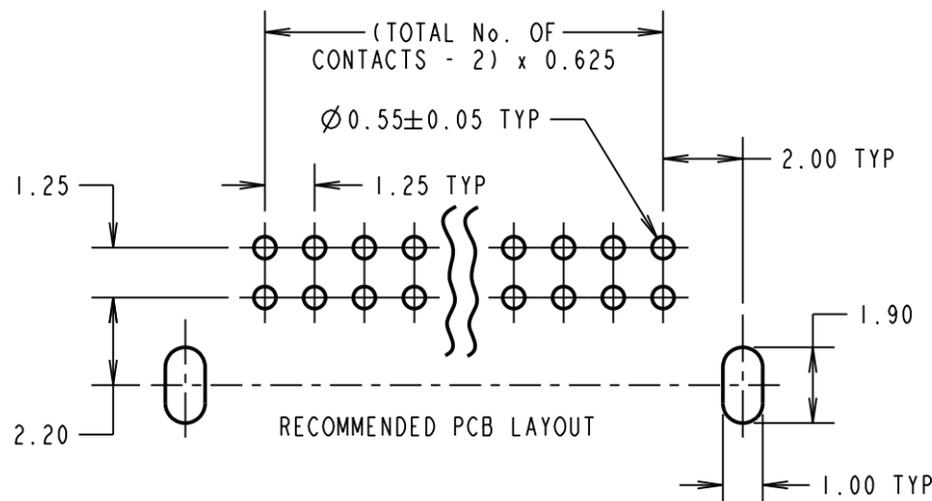
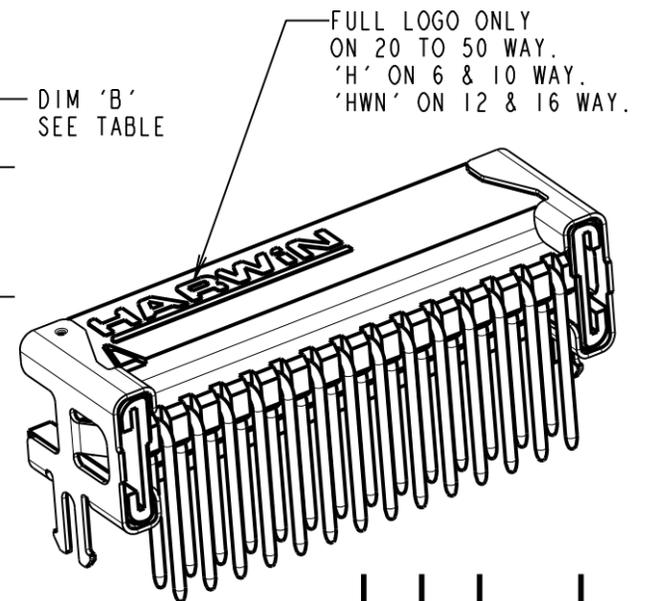
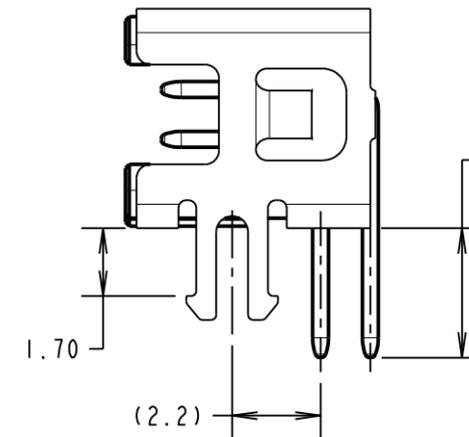
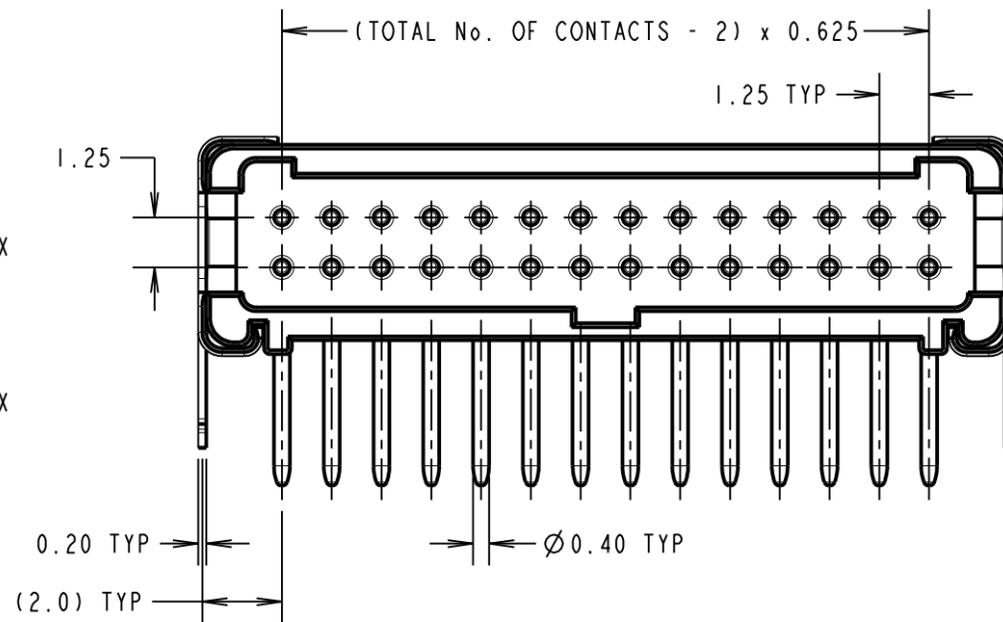
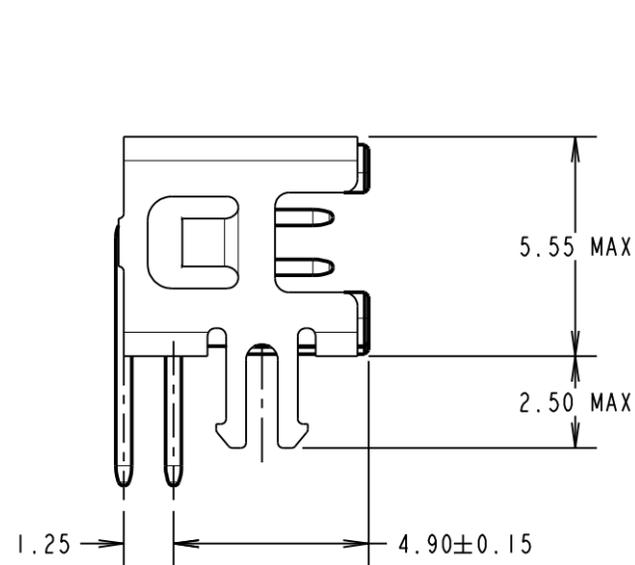
CONTACT STYLE: _____
 3.3mm PC-TAIL = H1
 4.8mm PC-TAIL = H2

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

LATCHES: _____
 1.7mm BOARD MOUNT = L5

PACK TYPE: _____
 R = 250 PCS IN TAPE AND REEL
 P = EACH (CUT TAPE LENGTHS)

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



CONNECTOR DETAILS AND PCB LAYOUT ONLY
 SEE SHEET 3 FOR TAPE AND REEL DETAILS

- NOTES:
- FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE). SEE G125-SERIES CONNECTORS SPECIFICATION SHEET FOR MATERIALS, FINISH AND SPECIFICATION SUMMARY.
 - SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.

| | | | |
|-----------------------|------|----------|--------|
| MGP | E | 15.12.15 | 13208 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: MGP | | | |
| CHECKED: SB | | | |
| DRAWN: MARK G PLESTED | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG.: | | | |

| | | | | |
|--|---|--|-------------------------|--|
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| | | X. = ±1mm X.X = ±0.50mm X.XX = ±0.10mm X.XXX = ±0.01mm ANGLES = ±5° UNLESS STATED | SEE NOTE 1 | G125 MALE HORIZONTAL PC TAIL SERIES IN TAPE & REEL |
| | | FINISH: SEE NOTE 1 | S/AREA: mm ² | DRAWING NUMBER: |
| | | | | G125-MHXXX05L5R |
| | | | | SHT 2 OF 3 |

Customer Information Sheet

DRAWING No.: G125-MHXXX05L5R

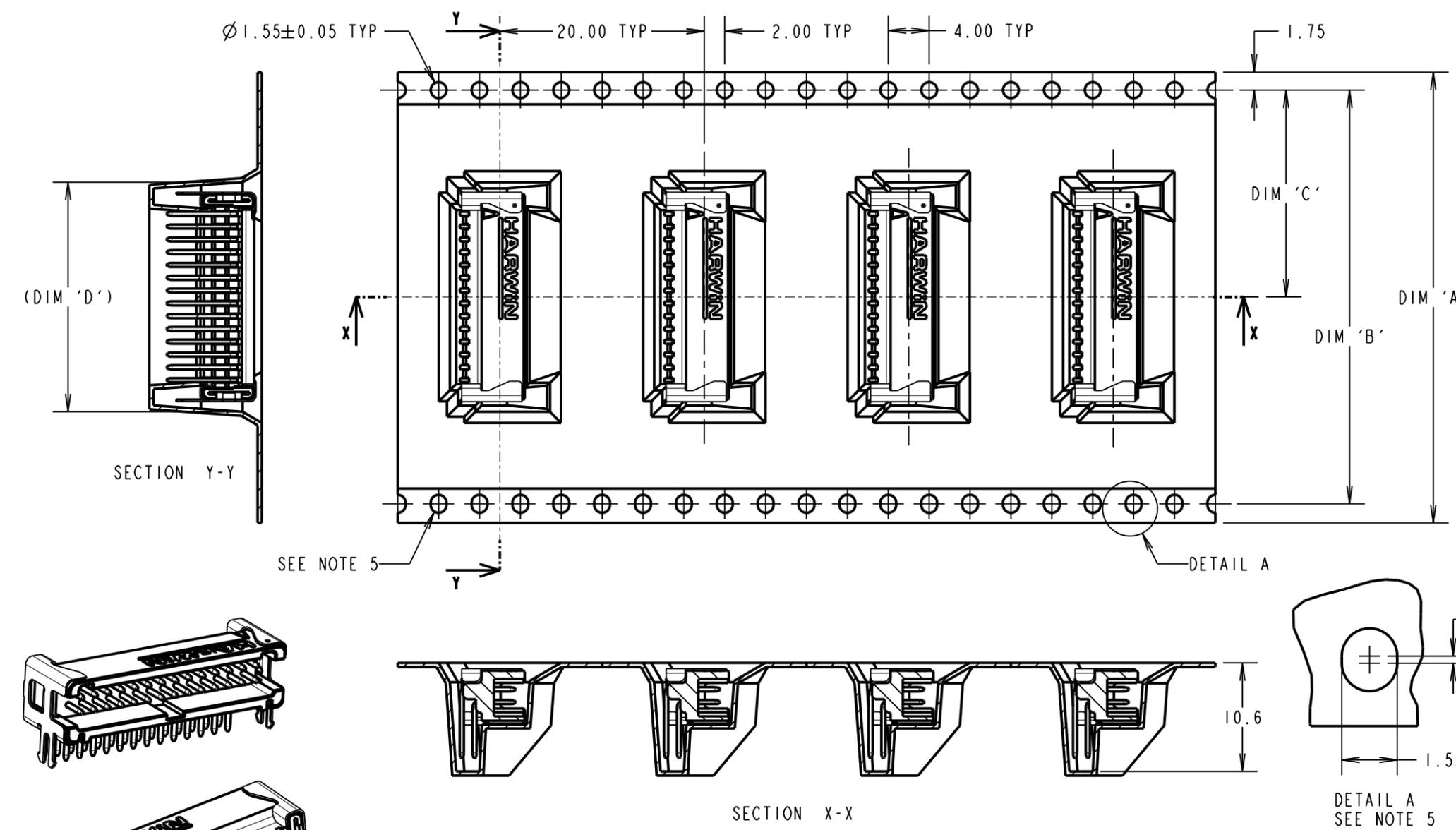
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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



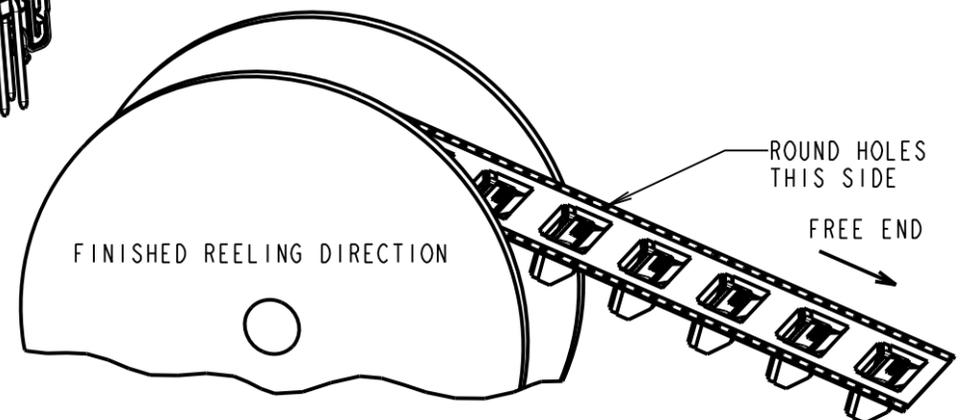
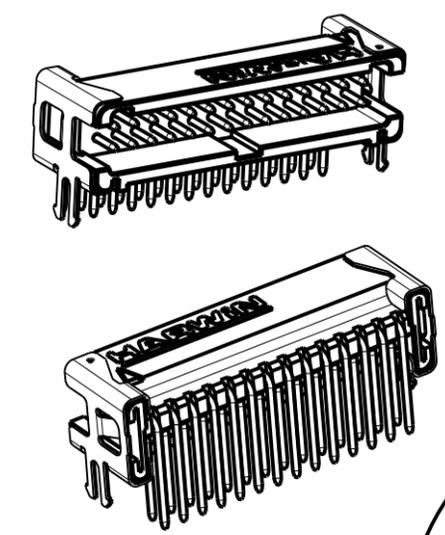
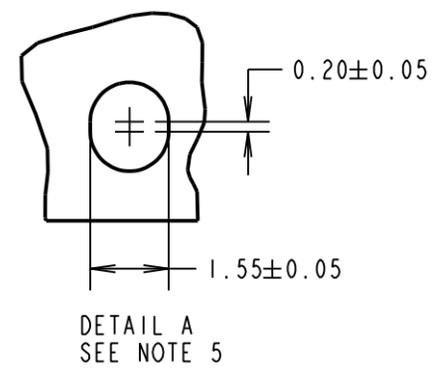
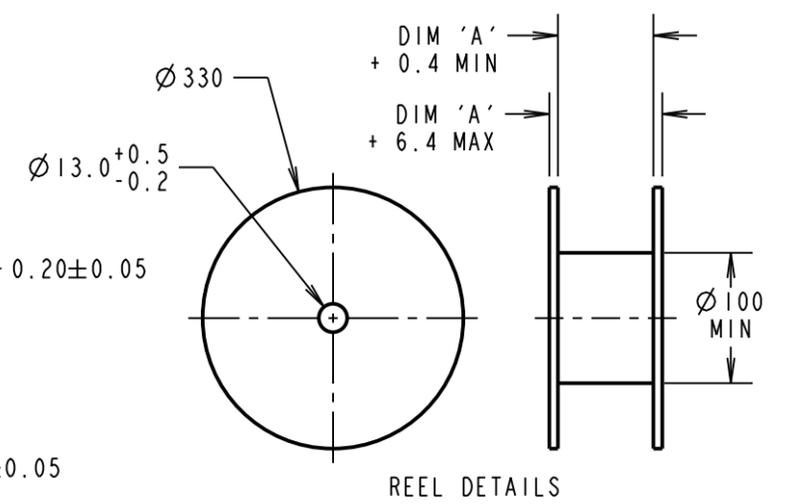
ORDER CODE: **G125-MHXXX05L5X**

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 4.8mm PC-TAIL = H2

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

LATCHES: _____
 1.7mm BOARD MOUNT = L5

PACK TYPE: _____
 R = 250 PCS IN TAPE AND REEL
 P = EACH (CUT TAPE LENGTHS)



| REELED PART No. | LOOSE PART No. | DIM 'A' | DIM 'B' | DIM 'C' | DIM 'D' |
|-----------------|-----------------|-------------------|-------------------------|-----------|-------------|
| G125-MHX0605L5R | G125-MHX0605L5P | 24.0 +0.3/-0.1 | NO ELONGATED HOLE | 11.50 | 8.5 11.0 |
| G125-MHX1005L5R | G125-MHX1005L5P | | | | 12.2 |
| G125-MHX1205L5R | G125-MHX1205L5P | 32.0±0.3 | 28.40 | 14.20 | 14.7 |
| G125-MHX2005L5R | G125-MHX2005L5P | | | | 17.2 |
| G125-MHX2605L5R | G125-MHX2605L5P | 44.0±0.3 | 40.40 | 20.2±0.15 | 21.0 |
| G125-MHX3405L5R | G125-MHX3405L5P | | | | 26.0 |
| G125-MHX5005L5R | G125-MHX5005L5P | 56.0±0.3 | 52.40 | 26.2±0.15 | 36.0 |

| | | | |
|-----------------------|------|----------|--------|
| MGP | E | 15.12.15 | 13208 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: MGP | | | |
| CHECKED: SB | | | |
| DRAWN: MARK G PLESTED | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG: | | | |

- NOTES:
- FOR "R" VARIANT, QUANTITY OF COMPONENTS PER REEL = 250.
 - FOR "P" VARIANT, QUANTITY IS CUT FROM G125-MHXXX05L5R.
 - THIS PRODUCT IS TAPED AND REELED IN GENERAL ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
 - FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
 - ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.
 - SEE SHEET 2 FOR CONNECTOR DETAILS.

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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 SHEET 2

FINISH: SEE SHEET 2

S/AREA: mm²

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

DRAWING NUMBER:
G125-MHXXX05L5R

SHT
 3 OF 3

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

LATCHES:

COPPER NICKEL TIN ALLOY

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):

STYCAST 2651 MM BACK POTTING WITH CATALYST 3

FINISH:

ALL CONTACTS:
0.2-0.3µ GOLD OVER NICKEL
LATCHES:
3.0µ 100% TIN OVER NICKEL

MECHANICAL:

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

ENVIRONMENTAL:

CLASSIFICATION: 65/150/96 HOURS AT 95% 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/s² (20G). DURATION 2Hr

* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s²
(100G) FOR 6ms IN Z AXIS, 490 mm/s² (50G) FOR 11ms IN X&Y AXIS.

* EIA-364-01A : 2000: ACCELERATION: 490 mm/s² (50G)
* BUMP SEVERITY: 390 mm/s² (40G), 4000± 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 = 20mΩ MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX

WORKING VOLTAGE:

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

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

INSULATION RESISTANCE:

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

FOR FULL COMPONENT SPECIFICATION SEE G125XX (LATEST ISSUE).



PATENT PENDING - UK 1205109.0

| | | |
|-----------|-----------|--------|
| SF | 11.01.13 | 11910 |
| NAME | DATE | C/NOTE |
| APPROVED: | S.FLOWER | |
| CHECKED: | S.BENNETT | |
| DRAWN: | S.FLOWER | |

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TOLERANCES
/ = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

TITLE:

G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER:

G125-SERIES CONNECTORS

SHT
3
OF
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