

# Customer Information Sheet

DRAWING No.: G125-MS1XX05L3X

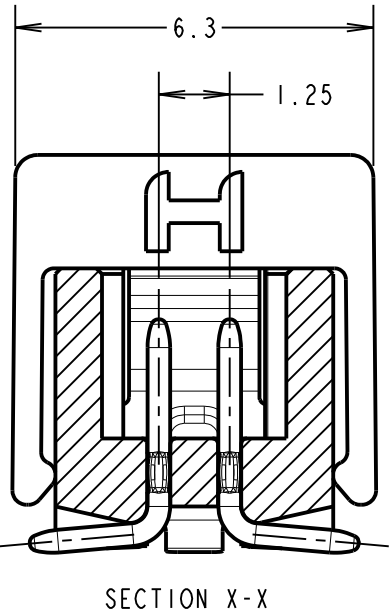
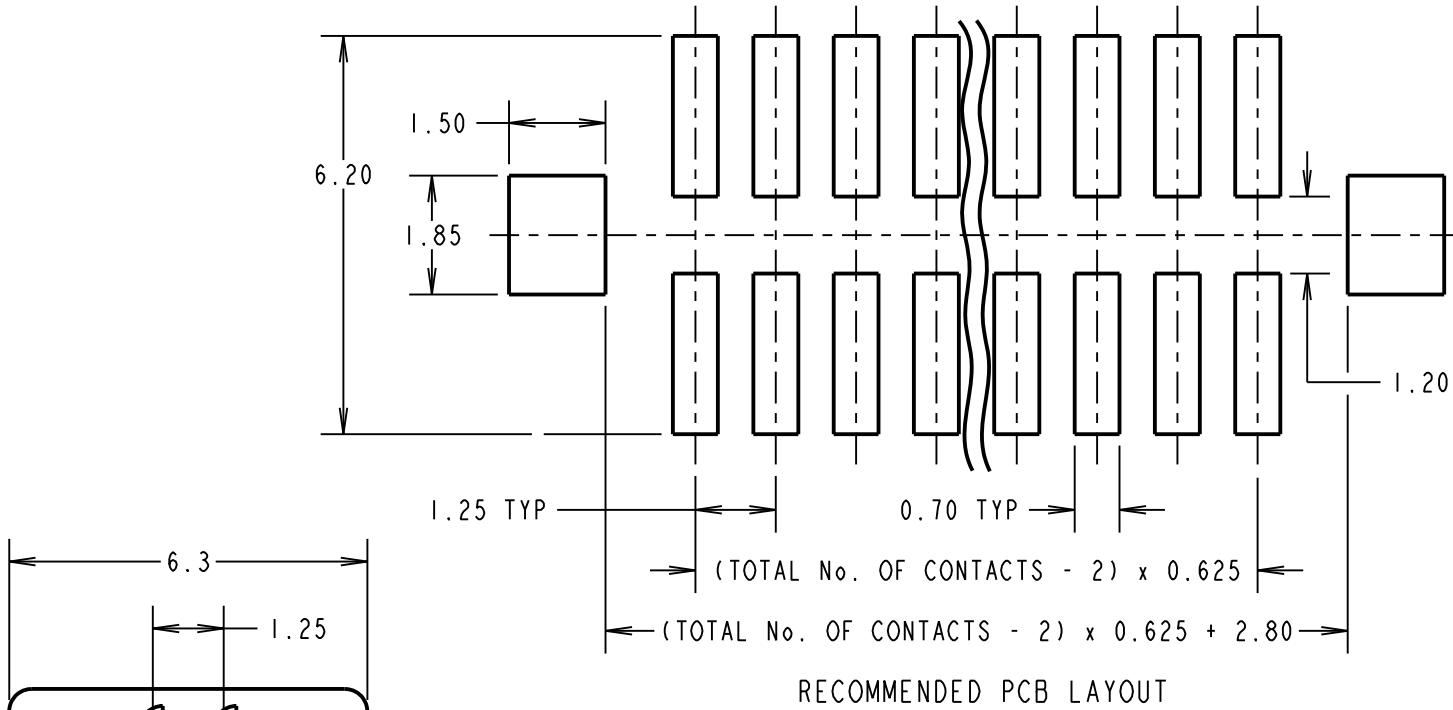
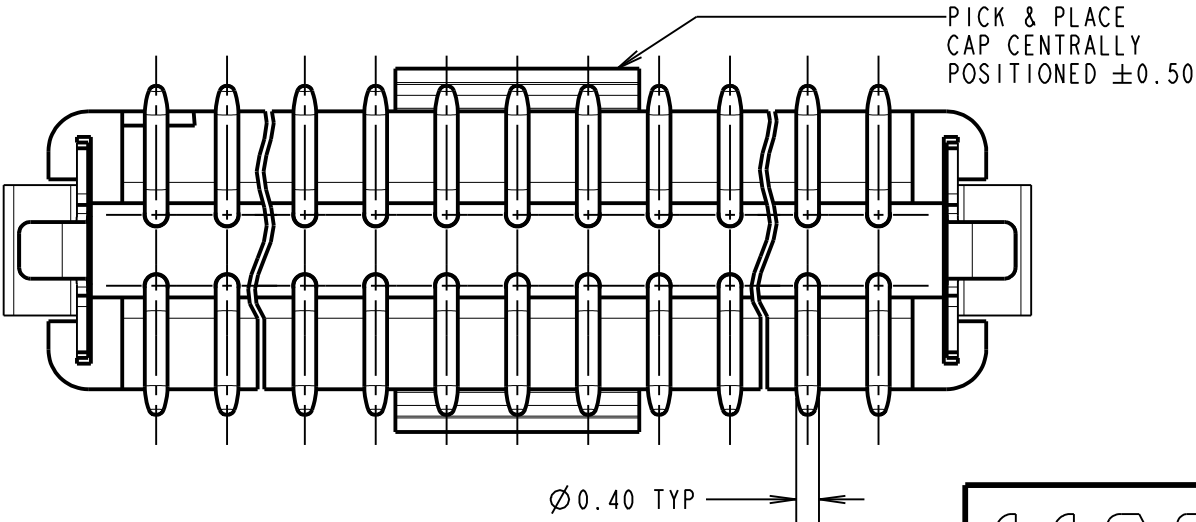
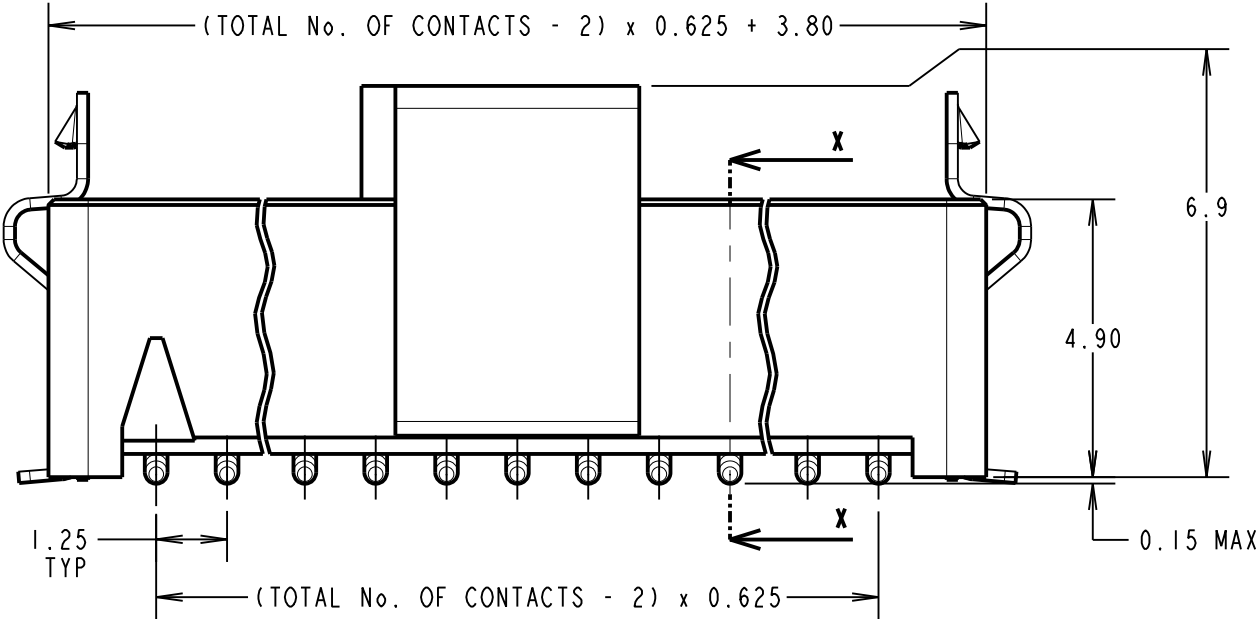
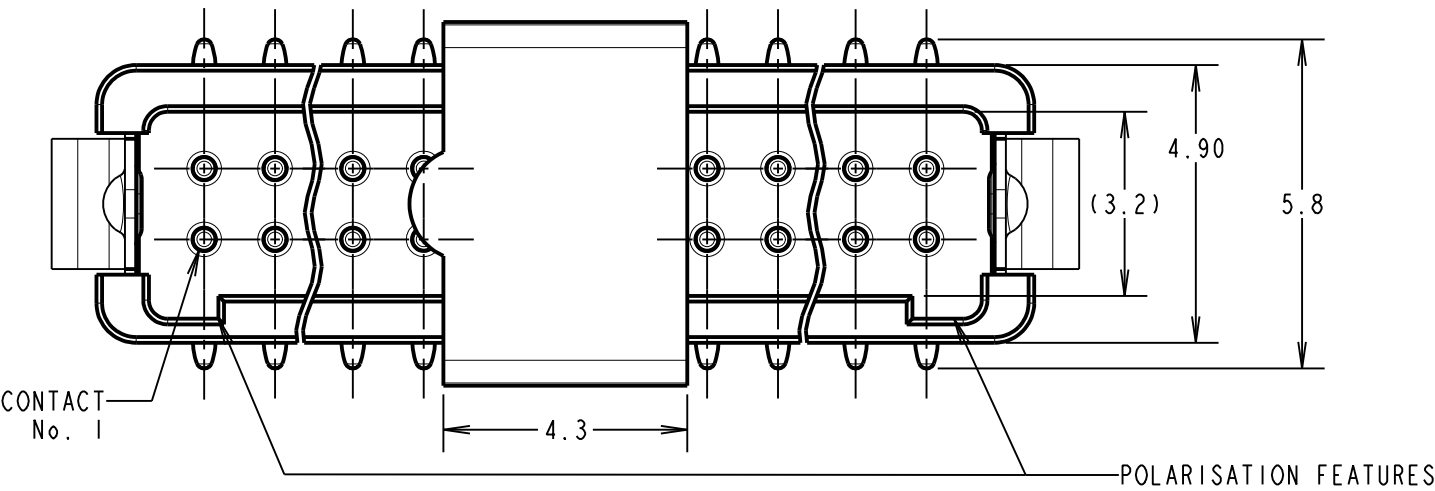
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



ORDER CODE: **G125-MS1XX05L3X**

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

PACK TYPE:  
R = 400PCS IN TAPE AND REEL  
P = EACH (CUT TAPE LENGTHS)

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

- NOTES:
- FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
  - CO-PLANARITY OF SMT TAILS AND L0 TO L2 LATCHES TO NOT EXCEED 0.10mm AND L3 LATCHES TO NOT EXCEED 0.08mm. RECOMMENDED SOLDER PASTE THICKNESS = 0.125mm MIN.
  - SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.

|                |      |           |        |
|----------------|------|-----------|--------|
| MSP            | 4    | 22.12.16  | 20004  |
| NAME           | ISS. | DATE      | C/NOTE |
| APPROVED:      |      | M.PERREN  |        |
| CHECKED:       |      | M.PLESTED |        |
| DRAWN:         |      | S.FLOWER  |        |
| CUSTOMER REF.: |      |           |        |
| ASSEMBLY DRG:  |      |           |        |

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TOLERANCES  
X. =  $\pm 1\text{mm}$   
X.X =  $\pm 0.25\text{mm}$   
X.XX =  $\pm 0.10\text{mm}$   
X.XXX =  $\pm 0.01\text{mm}$   
ANGLES =  $\pm 5^\circ$   
UNLESS STATED

MATERIAL:  
SEE SPECIFICATION SHEET  
FINISH: SEE SPECIFICATION SHEET  
S/AREA: mm<sup>2</sup>

TITLE:  
1.25mm GECKO MALE VERTICAL  
SMT CONNECTORS IN TAPE & REEL  
DRAWING NUMBER:  
**G125-MS1XX05L3X**  
SHT 2 OF 3

# Customer Information Sheet

DRAWING No.: G125-MS1XX05L3X

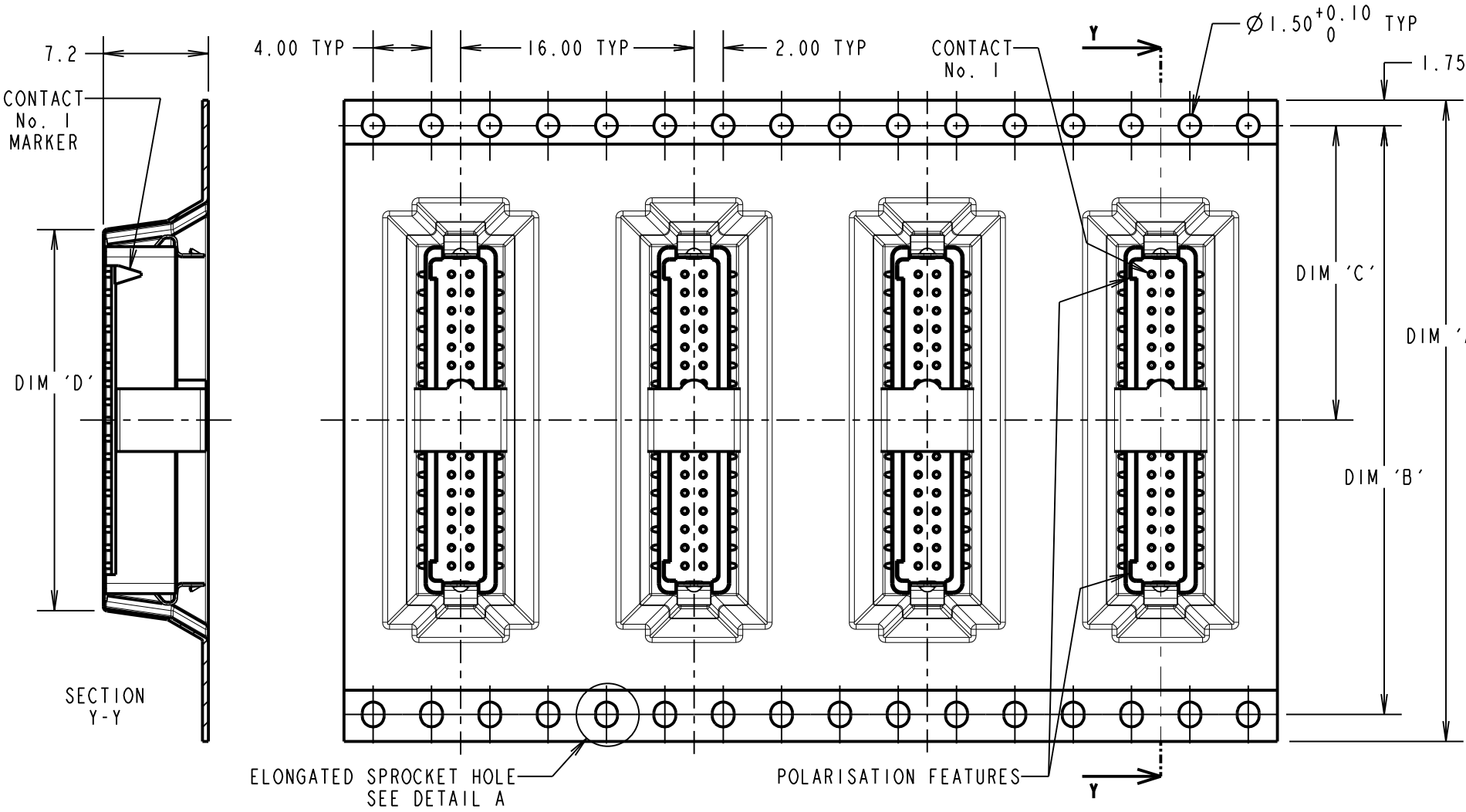
IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

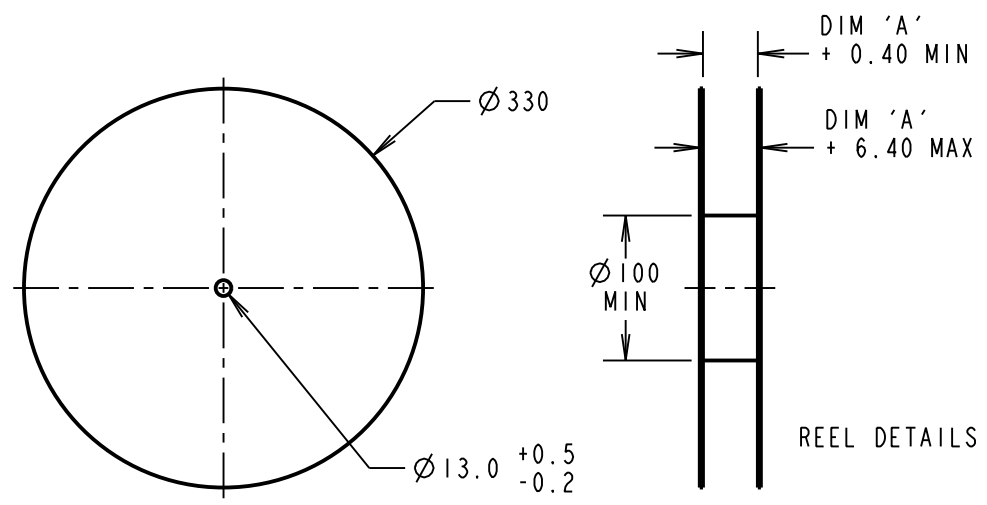
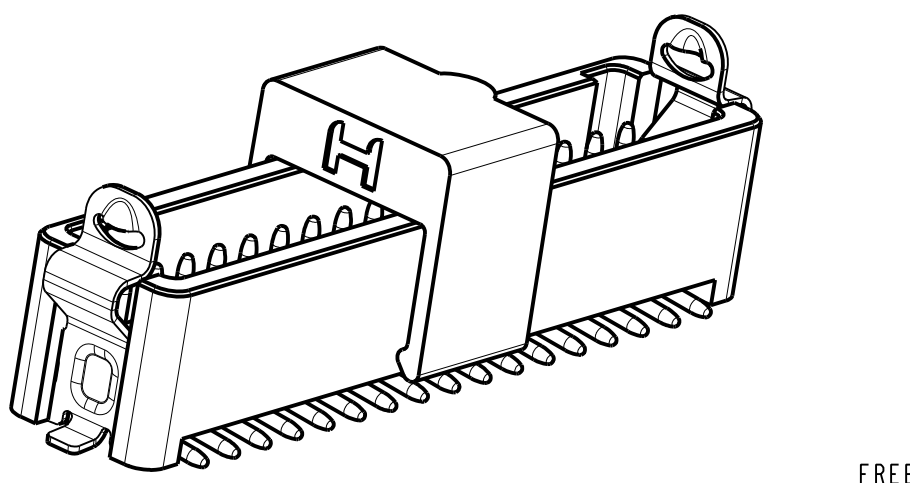
ALL DIMENSIONS IN mm



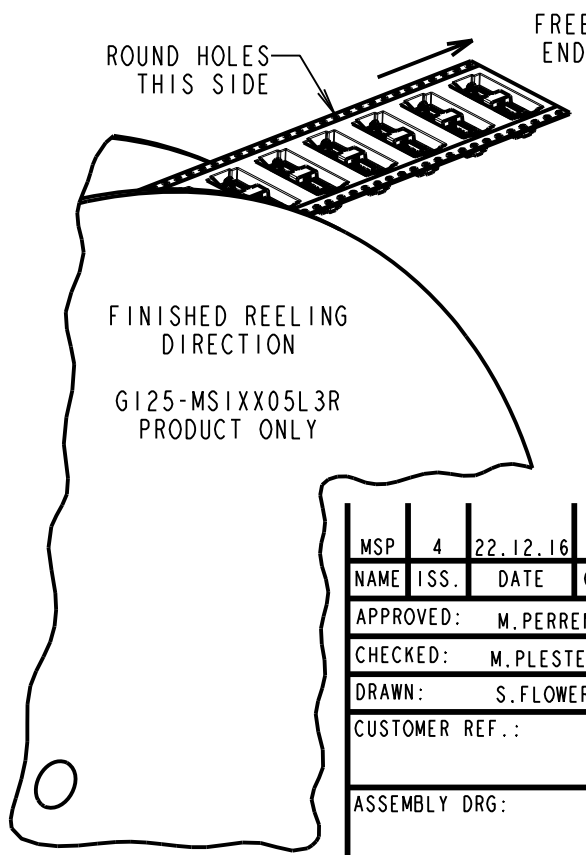
ORDER CODE: **G125-MS1XX05L3X**

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

PACK TYPE:  
R = 400PCS IN TAPE AND REEL  
P = EACH (CUT TAPE LENGTHS)



| REELED PART No. | LOOSE PART No.  | DIM 'A'  | DIM 'B'           | DIM 'C'   | (DIM 'D') |
|-----------------|-----------------|----------|-------------------|-----------|-----------|
| G125-MS10605L3R | G125-MS10605L3P | 24.0±0.3 | NO ELONGATED HOLE | 11.50     | (8.6)     |
| G125-MS11005L3R | G125-MS11005L3P |          |                   |           | (11.1)    |
| G125-MS11205L3R | G125-MS11205L3P | 32.0±0.3 | 28.40             | 14.20     | (12.4)    |
| G125-MS11605L3R | G125-MS11605L3P |          |                   |           | (14.9)    |
| G125-MS12005L3R | G125-MS12005L3P | 44.0±0.3 | 40.40             | 20.2±0.15 | (17.4)    |
| G125-MS12605L3R | G125-MS12605L3P |          |                   |           | (21.1)    |
| G125-MS13405L3R | G125-MS13405L3P |          |                   |           | (26.1)    |
| G125-MS15005L3R | G125-MS15005L3P | 56.0±0.3 | 52.40             | 26.2±0.15 | (36.1)    |



- NOTES:
- FOR "R" QUANTITY OF COMPONENTS PER REEL = 400.
  - FOR "P" QUANTITIES ARE EACH AND CUT FROM G125-MS1XX05L3R.
  - THIS PRODUCT IS TAPED AND REELED IN ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
  - FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
  - COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING AWAY FROM THE FREE END.
  - ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

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

MATERIAL:  
SEE SPECIFICATION SHEET  
FINISH: SEE SPECIFICATION SHEET  
S/AREA: mm<sup>2</sup>

TITLE:  
1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL  
DRAWING NUMBER:  
**G125-MS1XX05L3X**  
SHT 3 OF 3

|                    |      |          |        |
|--------------------|------|----------|--------|
| MSP                | 4    | 22.12.16 | 20004  |
| NAME               | ISS. | DATE     | C/NOTE |
| APPROVED: M.PERREN |      |          |        |
| CHECKED: M.PLESTED |      |          |        |
| DRAWN: S.FLOWER    |      |          |        |
| 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