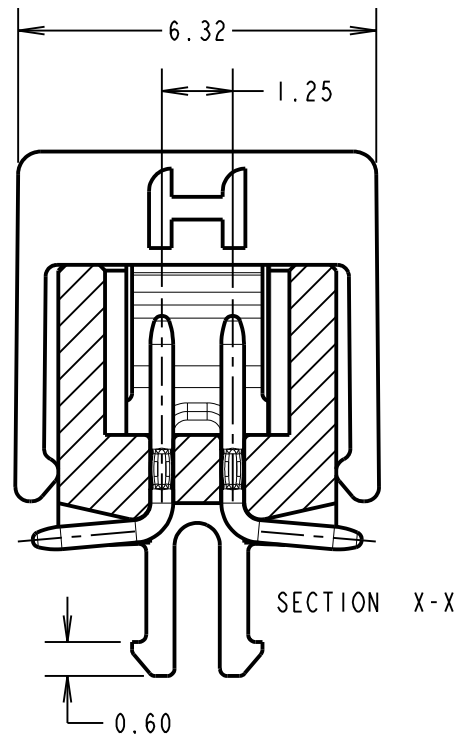
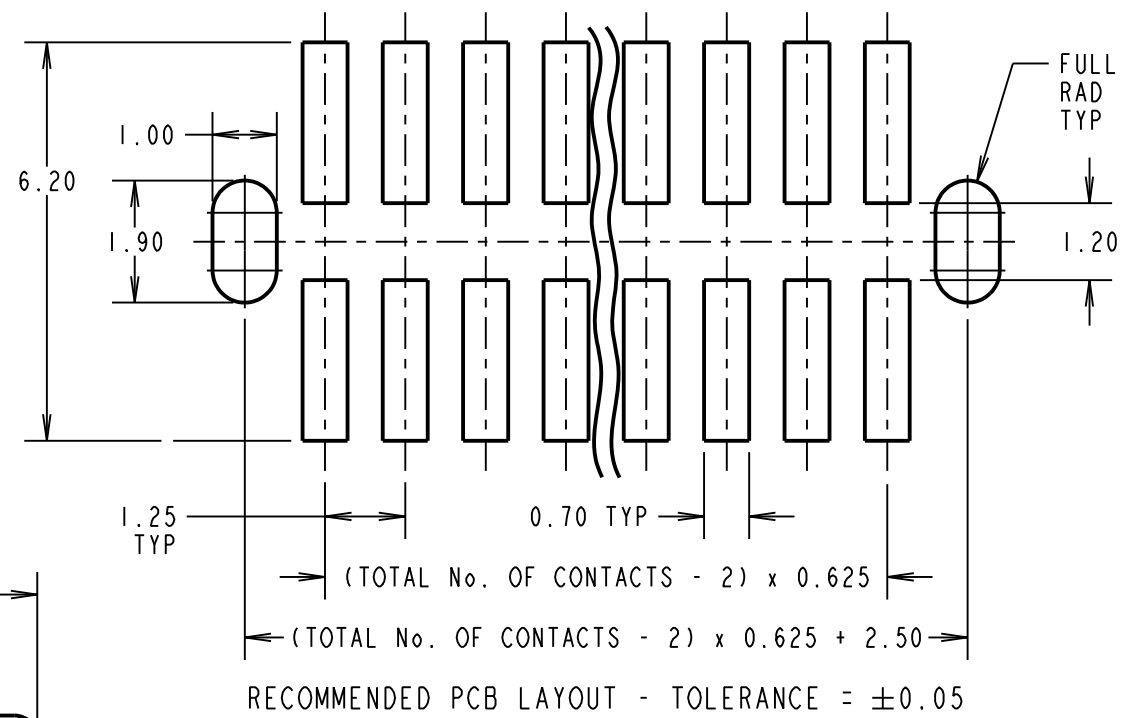
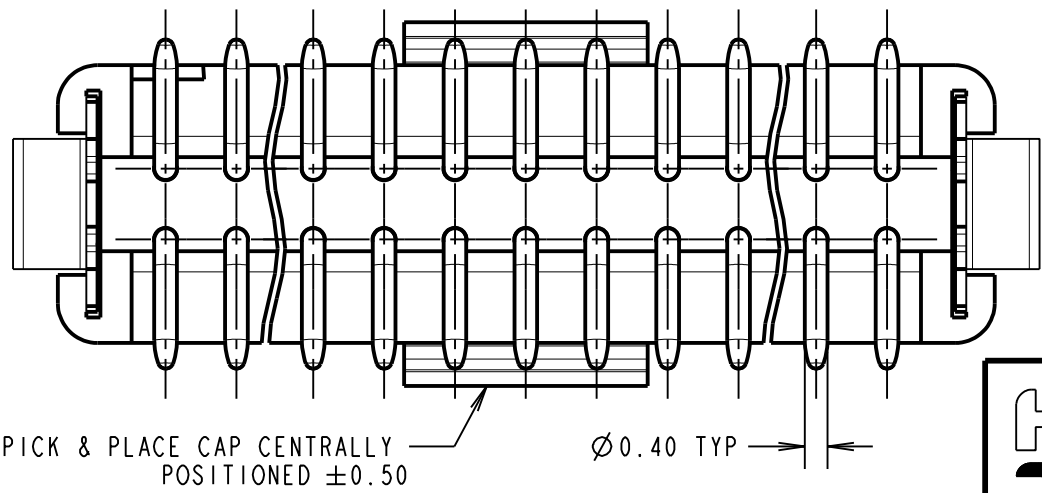
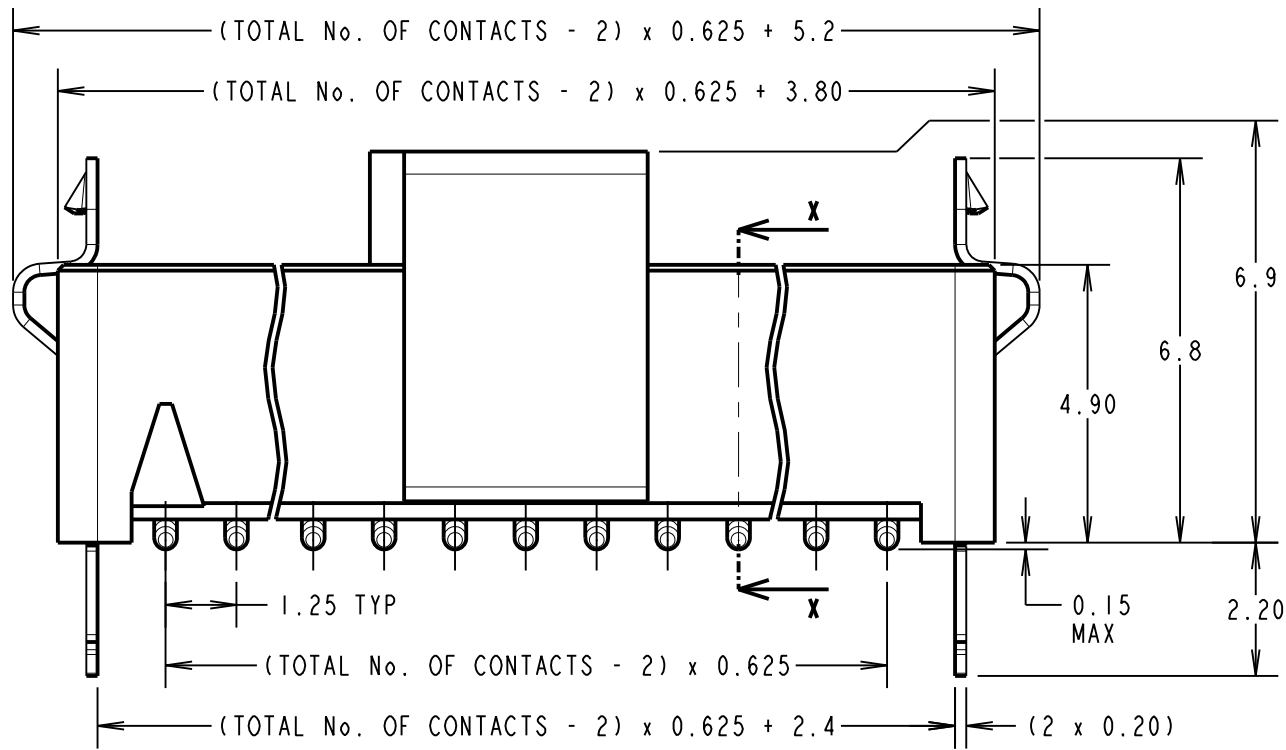
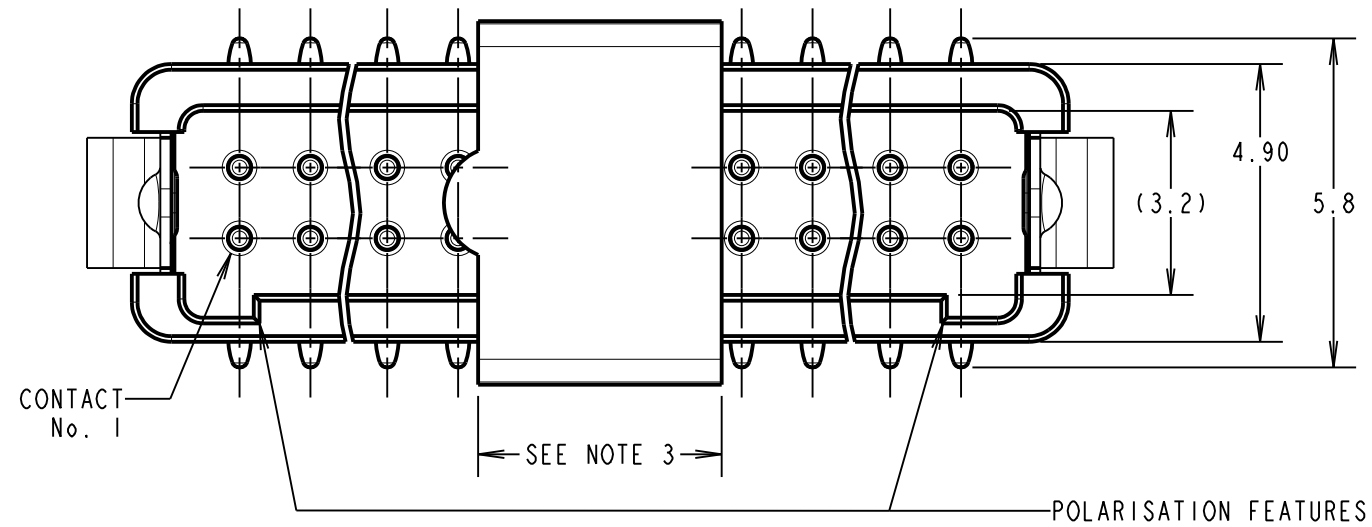


Customer Information Sheet

DRAWING No.: G125-MS1XX05LIP IF IN DOUBT - ASK © NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm



ORDER CODE: **G125-MS1XX05LIP**
TOTAL No. OF CONTACTS: 06, 10, 12, 16, 20, 26, 34, 50

CONNECTOR DETAILS AND PCB LAYOUT ONLY.
SEE SHEET 5 FOR TAPE STRIP DETAILS.

- NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
 2. CO-PLANARITY OF SMT TAILS NOT TO EXCEED 0.10mm. RECOMMENDED SOLDER PASTE THICKNESS = 0.125mm MIN.
 3. PICK AND PLACE CAP LENGTH = 4.3mm ON ALL PART NUMBERS EXCEPT G125-MS10605LIP ON THIS PART LENGTH = 3.3mm.

| | | | |
|-----------------|------|----------|--------|
| MGP | 5 | 20.02.20 | 21885 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: MGP | | | |
| CHECKED: RP | | | |
| DRAWN: S.FLOWER | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG: | | | |

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www.harwin.com
technical@harwin.com

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:
SEE SPECIFICATION SHEET
FINISH: SEE SPECIFICATION SHEET
S/AREA: mm²

TITLE:
1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE
DRAWING NUMBER:
G125-MS1XX05LIP
SHT 4 OF 5

Customer Information Sheet

DRAWING No.: G125-MS1XX05LIP

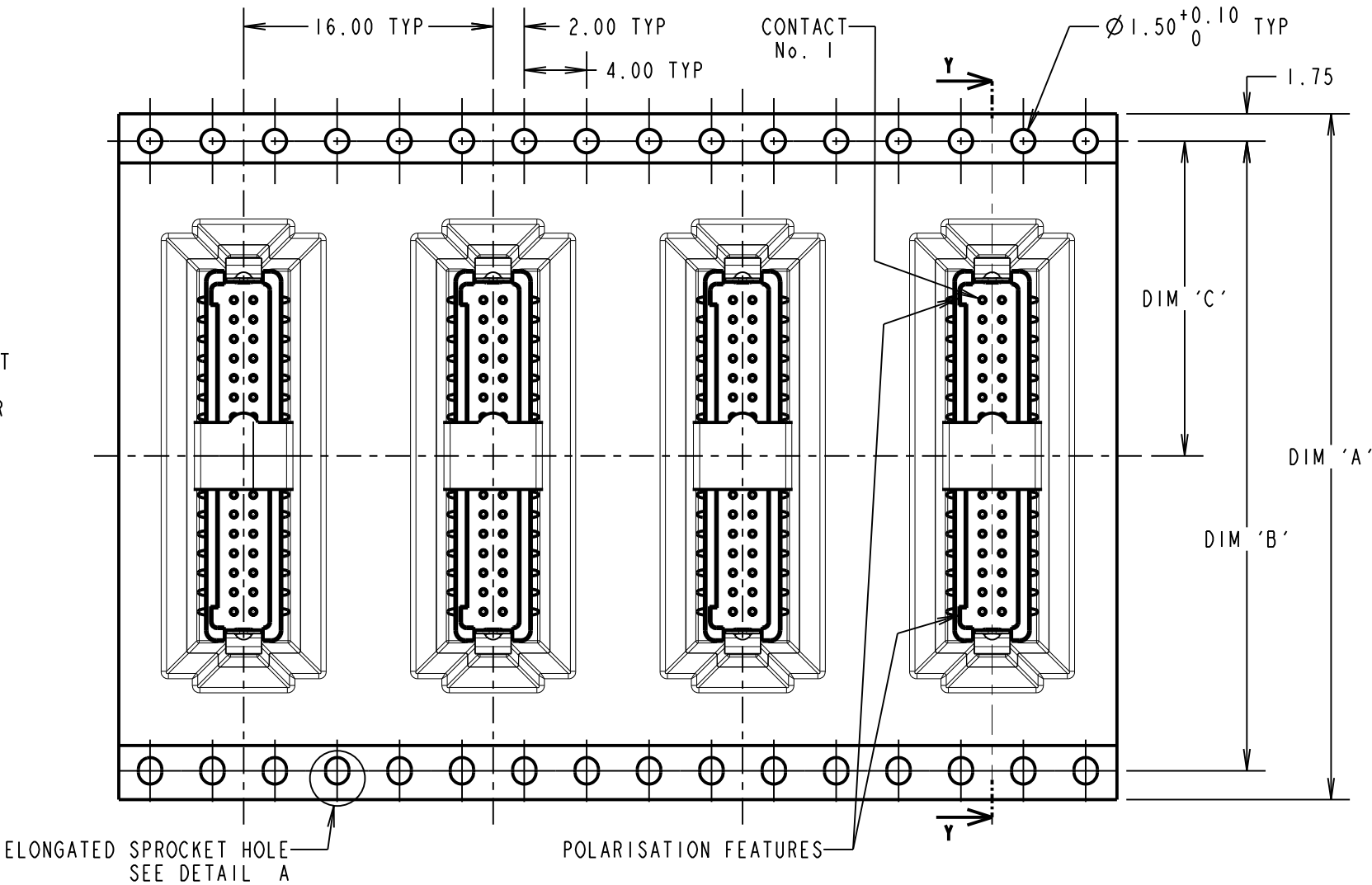
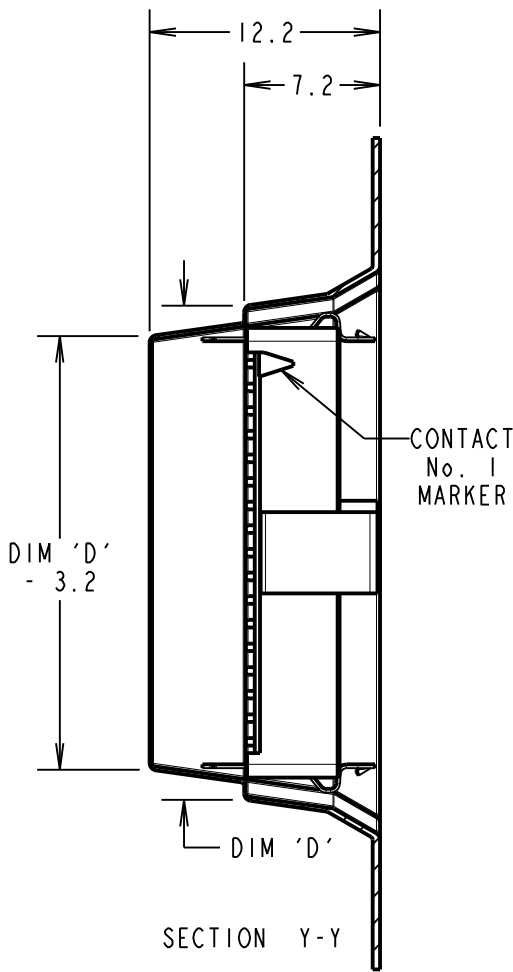
IF IN DOUBT - ASK

©

NOT TO SCALE

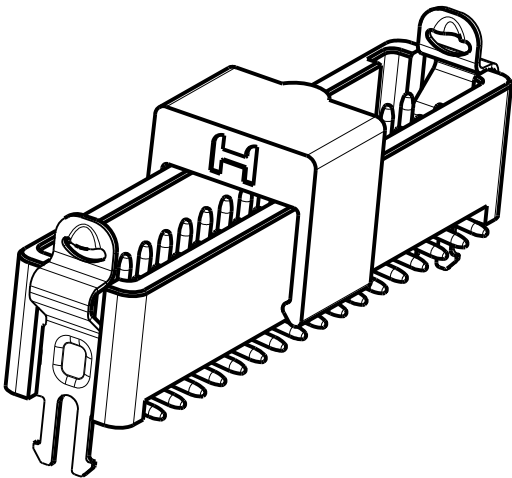
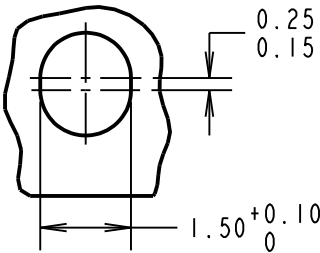
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



ORDER CODE: **G125-MS1XX05LIP**
TOTAL No. OF CONTACTS: 06, 10, 12, 16, 20, 26, 34, 50

DETAIL A
SCALE 8
SEE NOTE 6



- NOTES:
- COMPONENTS ARE ORIENTED IN TAPE POCKETS AS SHOWN.
 - COMPONENTS ARE SUPPLIED IN STRIPS OF TAPE. SUPPLIED QUANTITY MAY CONSIST OF MORE THAN ONE STRIP. STRIP LENGTH MAY VARY.
 - LARGE QUANTITIES MAY BE SHIPPED ON A REEL AND MAY NOT HAVE A LEADER.
 - FOR PARTS ON REEL SUITABLE FOR AUTOMATIC MACHINE PLACEMENT PLEASE ORDER: G125-MS1XX05LIR.
 - 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.

| PART No. | DIM 'A' | DIM 'B' | DIM 'C' | (DIM 'D') |
|-----------------|----------|-------------------------|-----------|-----------|
| G125-MS10605LIP | 24.0±0.3 | NO ELONGATED HOLE | 11.50 | (8.6) |
| G125-MS11005LIP | | | | (11.1) |
| G125-MS11205LIP | 32.0±0.3 | 28.40 | 14.20 | (12.4) |
| G125-MS11605LIP | | | | (14.9) |
| G125-MS12005LIP | 44.0±0.3 | 40.40 | 20.2±0.15 | (17.4) |
| G125-MS12605LIP | | | | (21.1) |
| G125-MS13405LIP | | | | (26.1) |
| G125-MS15005LIP | 56.0±0.3 | 52.40 | 26.2±0.15 | (36.1) |

| | | | |
|-----------------|------|----------|--------|
| MGP | 5 | 20.02.20 | 21885 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: MGP | | | |
| CHECKED: RP | | | |
| DRAWN: S.FLOWER | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG: | | | |

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X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:
SEE SPECIFICATION SHEET
FINISH: SEE SPECIFICATION SHEET
S/AREA: mm²

TITLE:
1.25mm GECKO MALE VERTICAL
SMT CONNECTORS IN TAPE

DRAWING NUMBER:
G125-MS1XX05LIP

SHT
5
OF
5

Customer Information Sheet

| | | | | | |
|--|-------------------|---|--------------|------------------------|----------------------|
| DRAWING No.: G125-SERIES COMPONENT SPECIFICATION | IF IN DOUBT - ASK | © | 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:

SIGNAL CONTACTS:
MALE PC-TAIL/SMT = PHOSPHOR BRONZE
MALE CRIMP = BRASS
ALL FEMALE CONTACTS = BERYLLIUM COPPER
POWER CONTACTS:
ALL CONTACTS = BERYLLIUM COPPER

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 SIGNAL CONTACTS:
0.2-0.3µm GOLD OVER NICKEL
ALL POWER CONTACTS:
0.76-1.00µm GOLD OVER 1.50-2.50µm NICKEL
AND COPPER FLASH
LATCHES:
3.0µm 100% TIN OVER NICKEL

MECHANICAL:

DURABILITY = 1000 OPERATIONS
RETENTION IN HOUSING (ALL CONTACTS) = 6.0N MIN
SIGNAL CONTACTS:
INSERTION FORCE = 2.8N MAX
WITHDRAWAL FORCE = 0.2N MIN
POWER CONTACTS:
INSERTION FORCE = 7.0N MAX
WITHDRAWAL FORCE = 0.2N MIN
SCREW-LOK:
RETENTION IN HOUSING = 20.0N MIN
LATCHES:
RETENTION IN HOUSING = 4.0N 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

MECHANICAL:

VIBRATION AND SHOCK:

* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DURATION 2Hr
* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s²
(100G) FOR 6ms IN Z AXIS, 490mm/s² (50G) FOR 11m/s IN X & Y AXIS.
* EIA-364-01A : 2000: ACCELERATION: 490mm/s² (50G)
* BUMP SEVERITY: 390mm/s² (40G), 4000±10 BUMPS
* TESTED WITH LATCHED CONNECTORS

ELECTRICAL:

CURRENT RATING:

SIGNAL CONTACTS:
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
POWER CONTACTS:
EIA-364-70A : 1998: PER CONTACT, THROUGH ALL CONTACTS = 10A MAX

CONTACT RESISTANCE:

EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20mΩ MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX

VOLTAGE PROOF:

EIA-364-20C : 2004: SEA LEVEL (1013mbar) = 600V DC/AC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar, 21,336m/70,000ft) = 350V DC/AC PEAK

WORKING VOLTAGE:

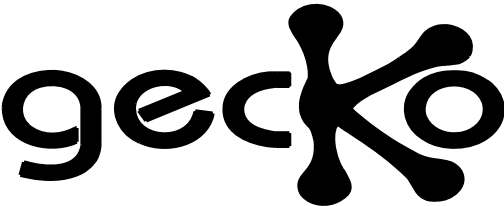
AT SEA LEVEL (1006mbar) = 450V DC/AC PEAK
AT ALTITUDE (44mbar, 21,336m/70,000ft) = 250V DC/AC PEAK

INSULATION RESISTANCE:

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

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

| | | | |
|----------------------|------|----------|--------|
| RTP | 5 | 04.10.19 | 22083 |
| NAME | ISS. | DATE | C/NOTE |
| APPROVED: R.PORTLOCK | | | |
| CHECKED: S.BENNETT | | | |
| DRAWN: S.FLOWER | | | |
| CUSTOMER REF.: | | | |
| ASSEMBLY DRG: | | | |



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X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm²

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:

Harwin:

[G125-MS12005L1P](#) [G125-MS12605L1P](#) [G125-MS13405L1P](#) [G125-MS11205L1P](#) [G125-MS11605L1P](#) [G125-MS15005L1P](#) [G125-MS10605L1P](#) [G125-MS11005L1P](#)