



**THE DATASHEET OF
G125-MV12005M2P**



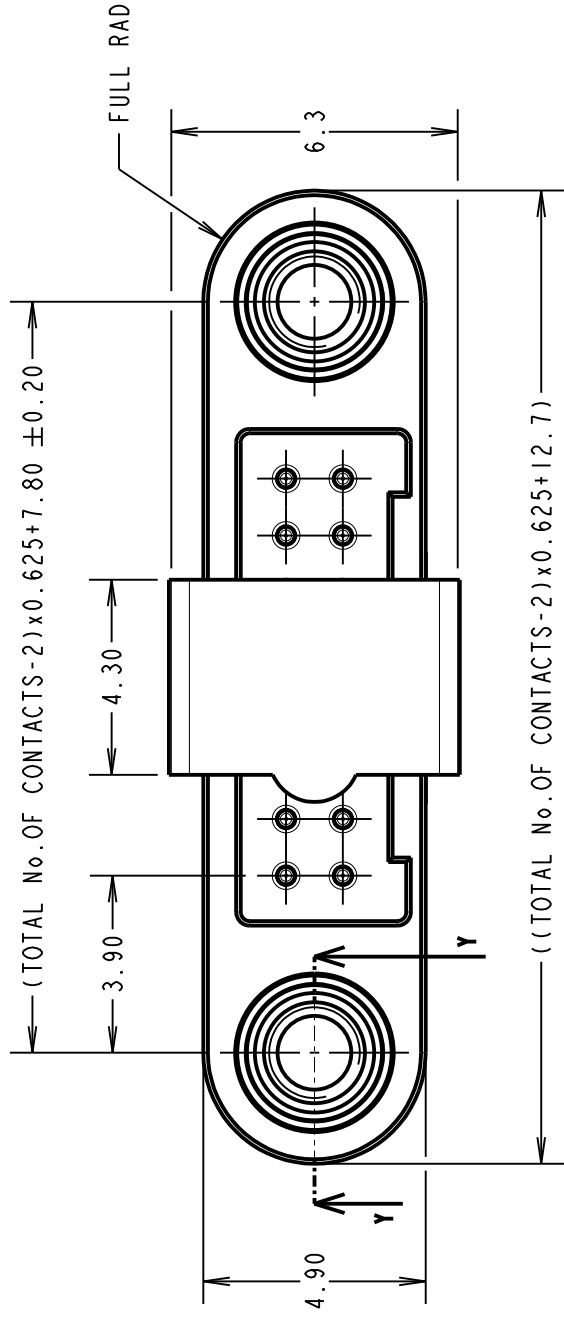
Customer Information Sheet

DRAWING No.: G125-MV1XX05M2P

IF IN DOUBT - ASK

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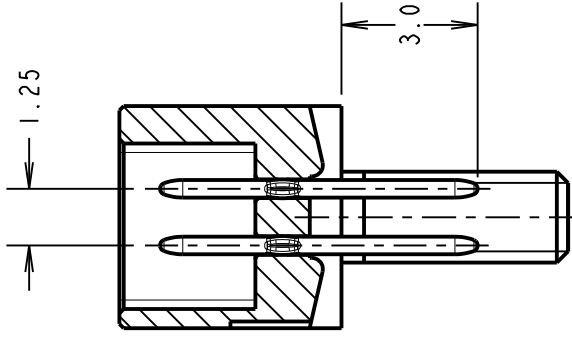
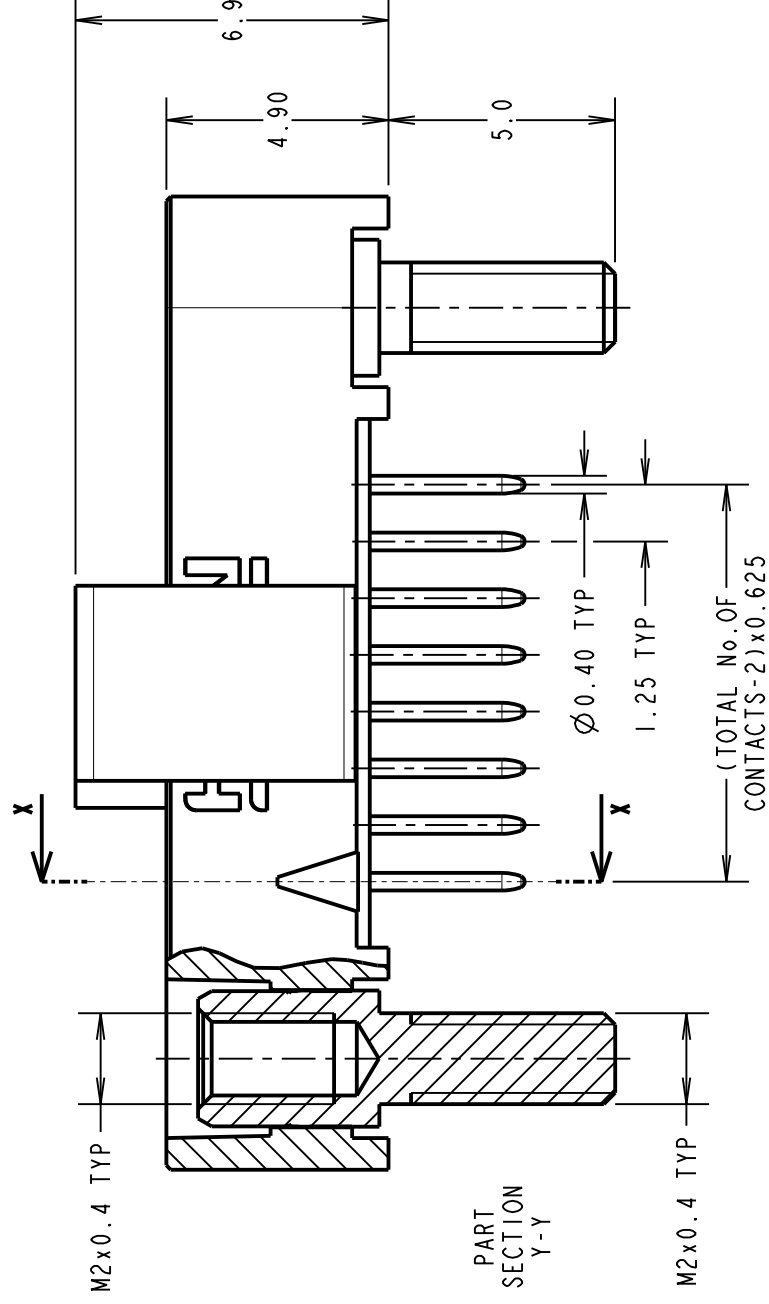
NOT TO SCALE



ORDER CODE: **G125-MV1XX05M2P**

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

((TOTAL No. OF CONTACTS-2) x 0.625 + 12.7)



SECTION X-X

(TOTAL No. OF CONTACTS

PART SECTION Y-Y

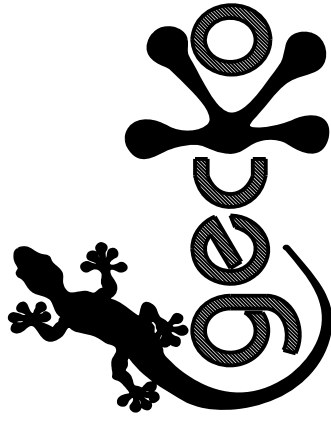
M2x0.4 TYP

(TOTAL No. OF CONTACTS-2) x 0.625

CONNECTOR AND PCB LAYOUT D
SEE SHEET 5 FOR TAPE STRI

NOTES:

- FOR MATERIALS, FINISH AND SPECIFICATIONS SEE GECKO SPECIFICATION C125XX (LATEST ISSUE) FOR OR COMPONENT SPECIFICATION C125XX (LATEST ISSUE) FOR
- DRAWING SHOWS CONNECTOR WITH 16 CONTACTS.
- FOR BOARD MOUNT NUTS, ORDER SEPARATELY. PART NUMBER: G125-4500000B HEXAGONAL THIN NUT - BAG OF 12 OR G125-4510000B ROUND SLOTTED NUT - BAG OF 12.



PATENTED TECHNOLOGY

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TOLERANCES

X. = ± 1 mm
X.X = ± 0.50 mm
X.XX = ± 0.20 mm
X.XXX = ± 0.1 mm

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ANGLES = $\pm 5^\circ$
UNLESS STATED

MATERIAL

FINISH

S/ART

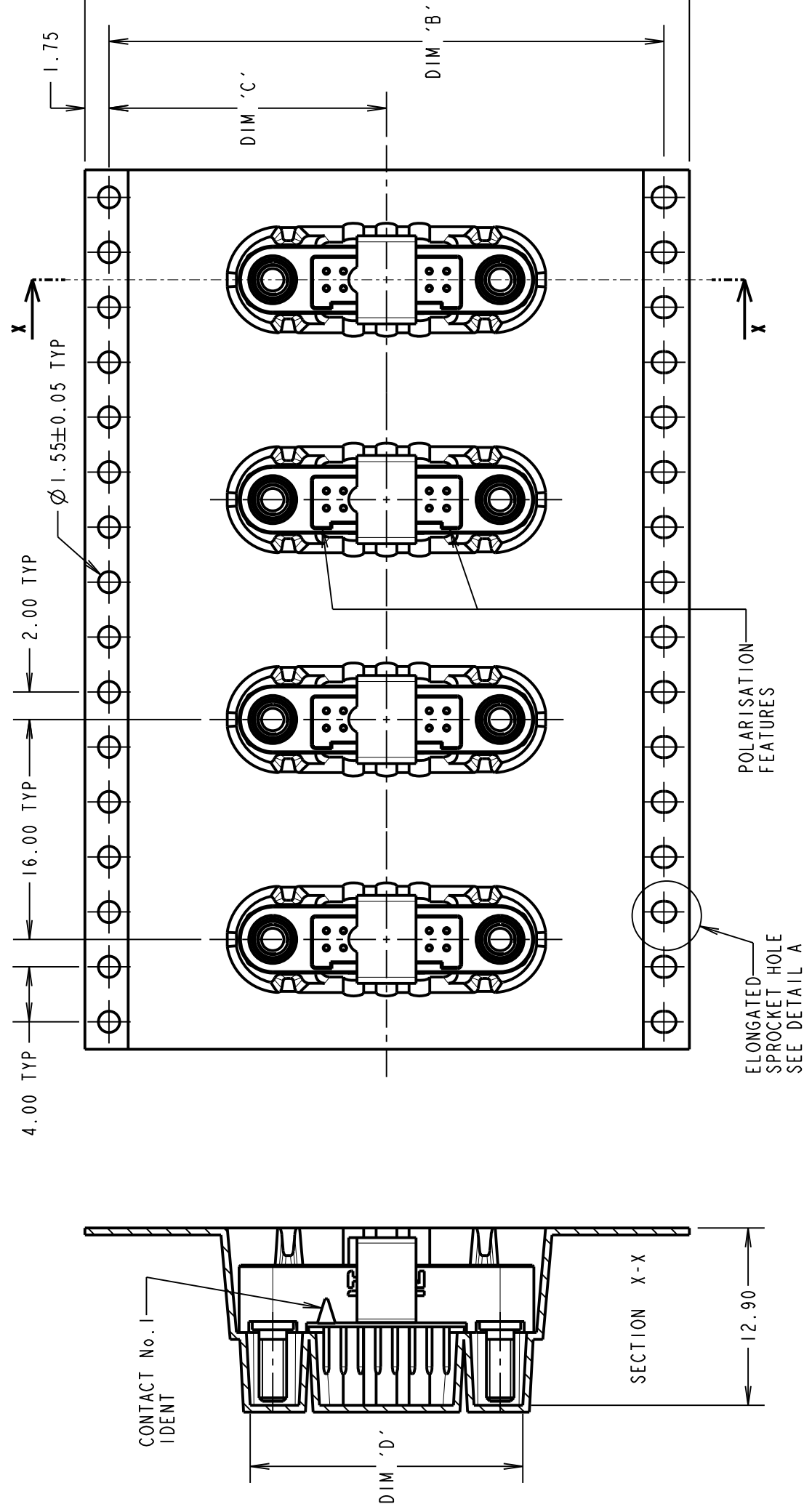
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DRAWING No.: G125-MV1XX05M2P

IF IN DOUBT - ASK

(C)

NOT TO SCALE



PART No.	DIM 'A'	DIM 'B'
G125-MV10605M2P	32.0±0.3	28.40
G125-MV11005M2P	44.0±0.3	40.40
G125-MV11205M2P	56.0±0.3	52.40
G125-MV11605M2P		
G125-MV12005M2P		
G125-MV12605M2P		
G125-MV13405M2P		
G125-MV15005M2P		

- 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-MV1XX05M2R.
 - COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING AWAY FROM THE FREE END.

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

MATERIALS
FINISH
START

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK



NOT TO SCALE

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: VIB
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DUR
* EIA-364-28D : 1999: TEST CONDITION IV: VIB
10Hz TO 2000Hz, 1.5mm, 198mm/s² (20G). DUR
* EIA-364-27B : 1996: TEST CONDITION E SHOCK
(100G) FOR 6ms IN Z AXIS, 490mm/s² (50G)
* EIA-364-01A : 2000: ACCELERATION: 490mm/s²
* BUMP SEVERITY: 390mm/s² (40G), 4000±10 BUM
* TESTED WITH LATCHED CONNECTORS

ELECTRICAL:

CURRENT RATING:

SIGNAL CONTACTS:

EIA-364-70A : 1998: INDIVIDUAL CONTACT IN
EIA-364-70A : 1998: ALL CONTACTS SIMULTAN

POWER CONTACTS:

EIA-364-70A : 1998: PER CONTACT, THROUGH

CONTACT RESISTANCE:

EIA-364-06C : 2006: INITIAL CONTACT RESISTA
EIA-364-06C : 2006: CONTACT RESISTANCE AFTE

VOLTAGE PROOF:

EIA-364-20C : 2004: SEA LEVEL (1013mbar) =
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar,

WORKING VOLTAGE:

AT SEA LEVEL (1006mbar) = 450V DC/AC PEAK
AT ALTITUDE (44mbar, 21.336m/70.000ft) = 25

INSULATION RESISTANCE:

EIA-364-21C : 2000: INSULATION RESISTANCE (=
= 10GΩ MIN AT 500V DC

EIA-364-21C : 2000: INSULATION RESISTANCE (=
= >16Ω MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LA

gecko

PATENTED TECHNOLOGY

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 [Harwin Inc. Information](#)

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-  Obsolete Management
-  Cost Control Management
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