

# Customer Information Sheet

DRAWING No.: G125-MVXXX05LXP

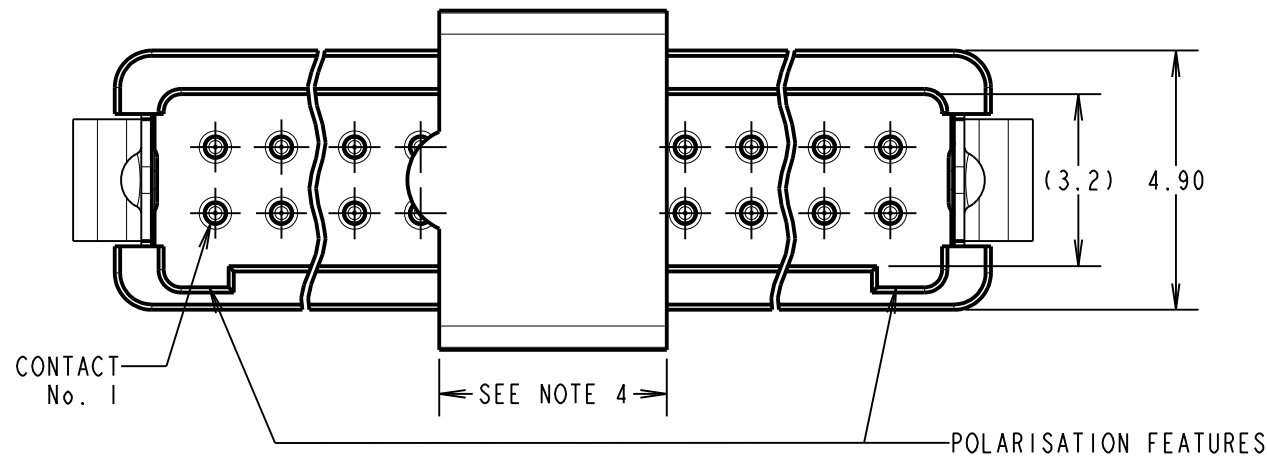
IF IN DOUBT - ASK

©

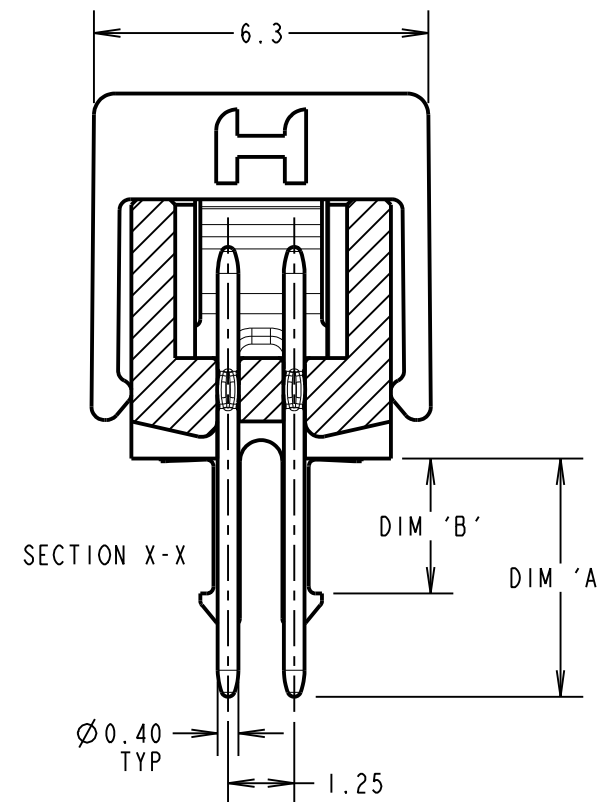
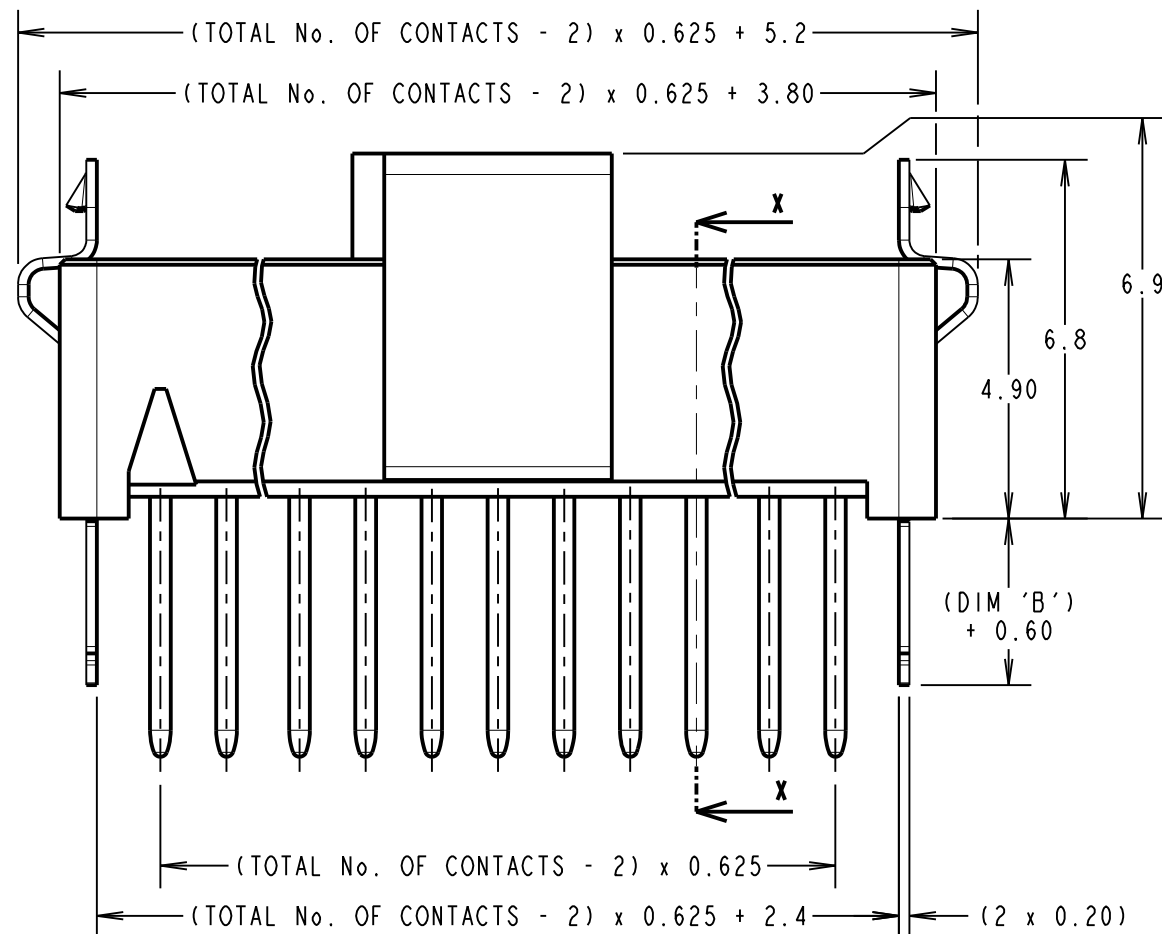
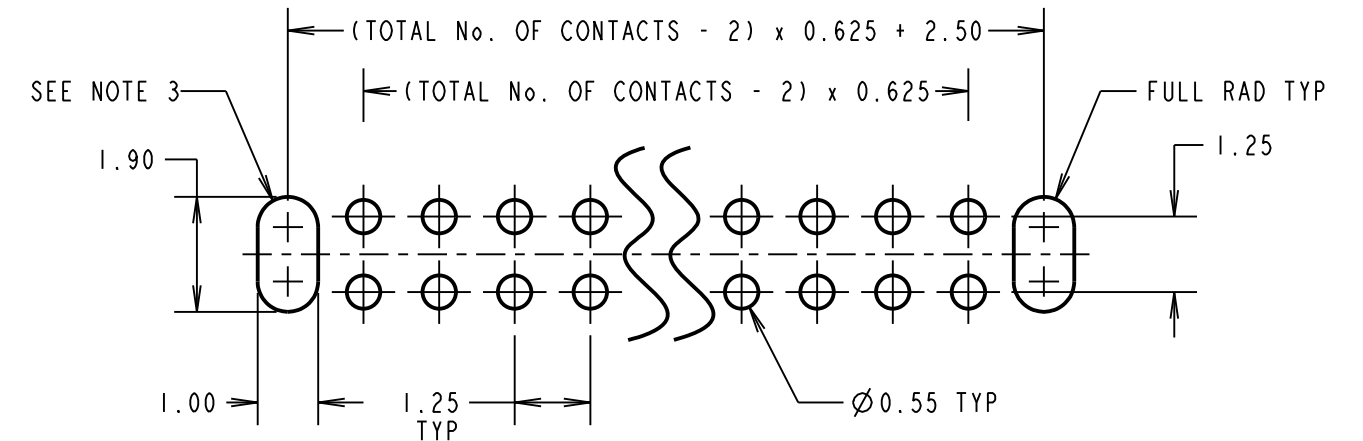
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



RECOMMENDED PCB LAYOUT - TOLERANCE = ±0.05



ORDER CODE: **G125-MVXXX05LXP**

CONTACT STYLE:  
3.00MM PC-TAIL = V1  
4.50MM PC-TAIL = V2

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

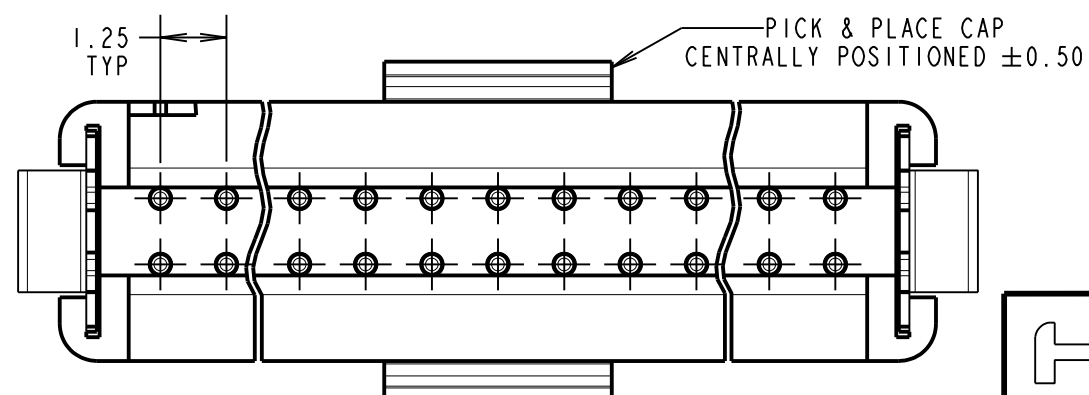
LATCHES:  
NO LATCHES = L0  
1.6mm LATCHES = L1  
2.4mm LATCHES = L2

CONTACT STYLE	DIM 'A'	LATCH STYLE	DIM 'B'
V1	3.00	L0	NO LATCH
		L1	1.70
V2	4.50	L0	NO LATCH
		L2	2.50

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

NOTES:

- FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
- LATCHES SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN ORDER CODE NO LATCHES WILL BE FITTED/SUPPLIED.
- SLOTS NOT REQUIRED WHEN "L0" IS SPECIFIED IN ORDER CODE.
- PICK AND PLACE CAP LENGTH = 4.3mm ON ALL PART NUMBERS EXCEPT G125-MVX0605LXP ON THIS PART LENGTH = 3.3mm.



MGP	3	25.02.20	21885
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: RA			
DRAWN: S.FLOWER			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

www.harwin.com  
technical@harwin.com

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.

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

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

TITLE: 1.25mm GECKO MALE VERTICAL THROUGH BOARD CONNECTORS IN TAPE

DRAWING NUMBER: **G125-MVXXX05LXP**

SHT 4 OF 5

# Customer Information Sheet

DRAWING No.: G125-MVXXX05LXP

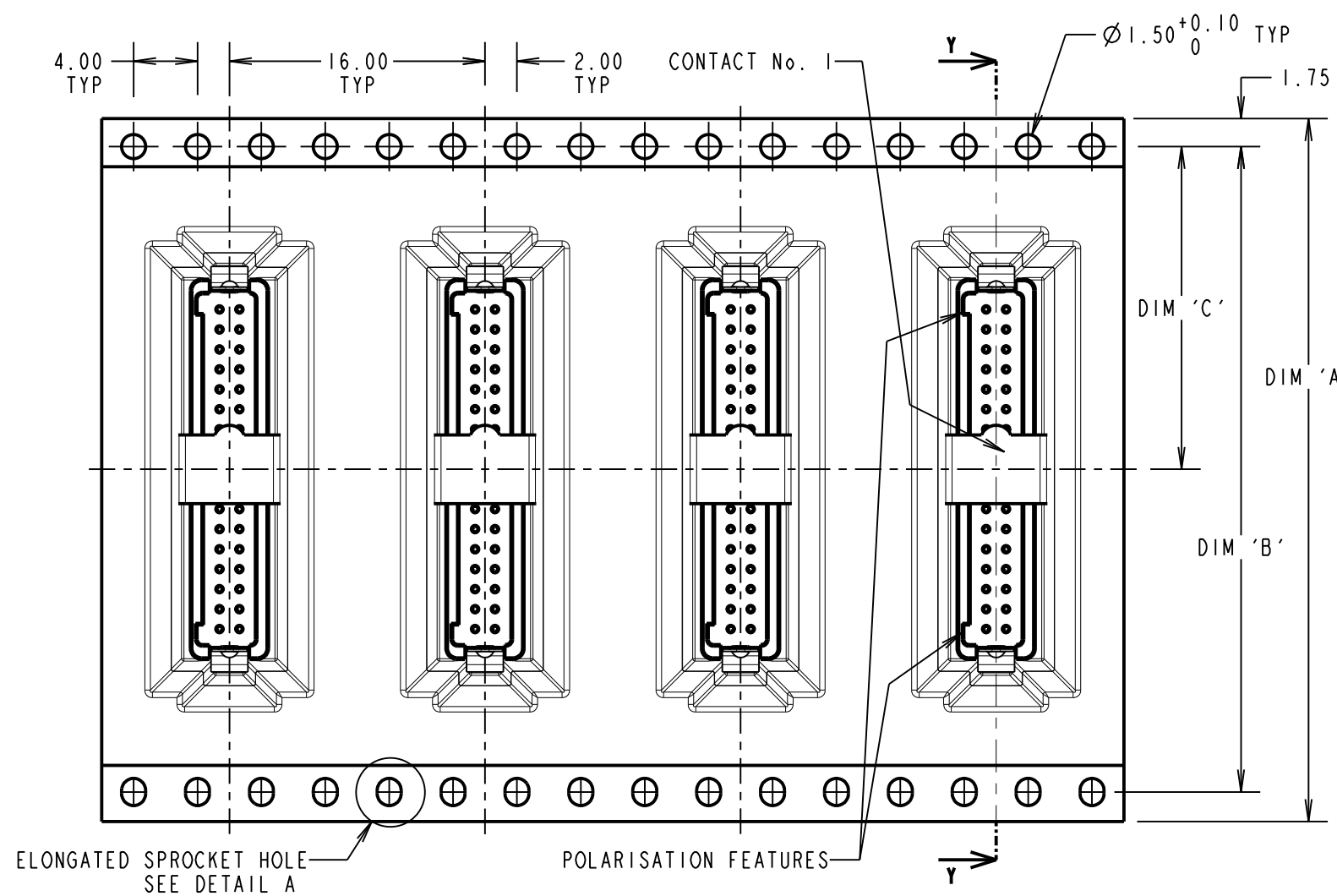
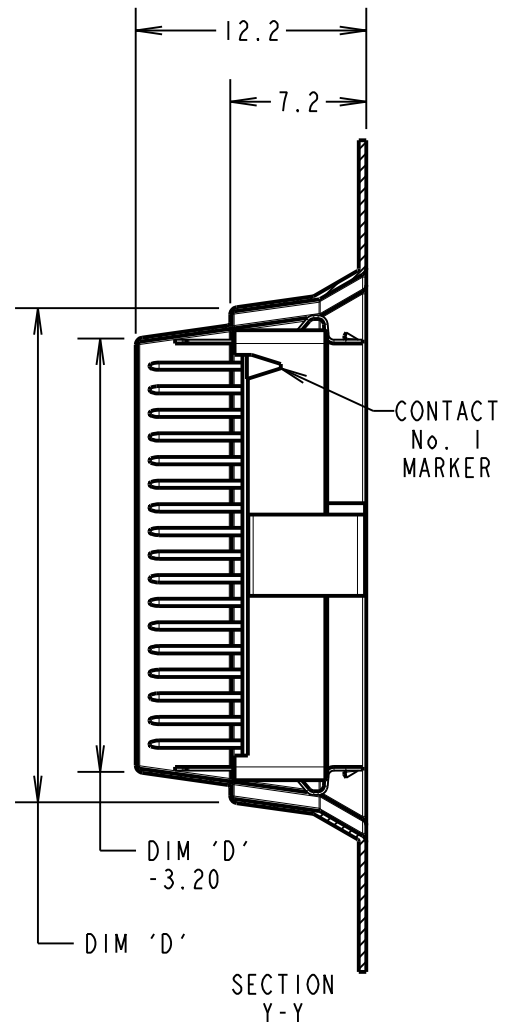
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

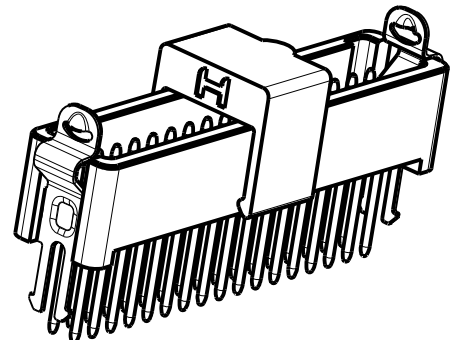
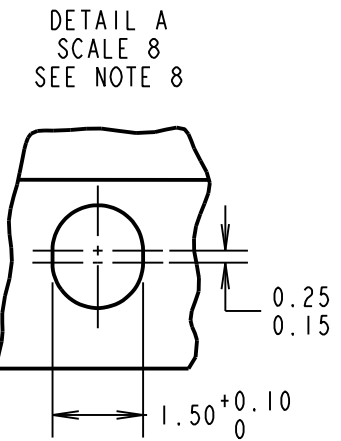


ORDER CODE: **G125-MVXXX05LXP**

CONTACT STYLE: \_\_\_\_\_  
 3.00MM PC-TAIL = V1  
 4.50MM PC-TAIL = V2

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

LATCHES: \_\_\_\_\_  
 NO LATCHES = L0  
 1.6mm LATCHES = L1  
 2.4mm LATCHES = L2



- 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-MVXXX05LXR.
  - 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.
  - LATCHES SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN ORDER CODE NO LATCHES WILL BE FITTED/SUPPLIED.
  - ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

FINISHED PART No.	DIM 'A'	DIM 'B'	DIM 'C'	(DIM 'D')
G125-MVX0605LXP	24.0±0.3	NO ELONGATED HOLE	11.50	(8.6)
G125-MVX1005LXP		(11.1)		
G125-MVX1205LXP	32.0±0.3	28.40	14.20	(12.4)
G125-MVX1605LXP				(14.9)
G125-MVX2005LXP	44.0±0.3	40.40	20.2±0.15	(17.4)
G125-MVX2605LXP				(21.1)
G125-MVX3405LXP	56.0±0.3	52.40	26.2±0.15	(26.1)
G125-MVX5005LXP				(36.1)

MGP	3	25.02.20	21885
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: RA			
DRAWN: S.FLOWER			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

www.harwin.com  
 technical@harwin.com

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.

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: mm<sup>2</sup>

TITLE: 1.25mm GECKO MALE VERTICAL THROUGH BOARD CONNECTORS IN TAPE

DRAWING NUMBER: **G125-MVXXX05LXP**

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



PATENTED TECHNOLOGY

**HARWIN**

www.harwin.com  
technical@harwin.com

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER SET OUT HEREON ARE CONFIDENTIAL AND COPYRIGHT PROPERTY OF THE HARWIN GROUP AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING, TENDERING OR FOR ANY OTHER PURPOSE WITHOUT THEIR WRITTEN PERMISSION.

**TOLERANCES**

X. = ±1mm  
X.X = ±0.50mm  
X.XX = ±0.20mm  
X.XXX = ±0.01mm  
ANGLES = ±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

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

# Mouser Electronics

Authorized Distributor

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

## Harwin:

[G125-MV21605L2P](#) [G125-MV11205L1P](#) [G125-MV12005L0P](#) [G125-MV22605L0P](#) [G125-MV12605L1P](#) [G125-MV11205L0P](#) [G125-MV11605L1P](#) [G125-MV22005L0P](#) [G125-MV22605L2P](#) [G125-MV21205L0P](#) [G125-MV12605L0P](#) [G125-MV21205L2P](#) [G125-MV11605L0P](#) [G125-MV22005L2P](#) [G125-MV21605L0P](#) [G125-MV12005L1P](#) [G125-MV13405L0P](#) [G125-MV10605L1P](#) [G125-MV11005L0P](#) [G125-MV11005L1P](#) [G125-MV13405L1P](#) [G125-MV15005L0P](#) [G125-MV15005L1P](#) [G125-MV20605L0P](#) [G125-MV20605L2P](#) [G125-MV21005L0P](#) [G125-MV21005L2P](#) [G125-MV23405L0P](#) [G125-MV23405L2P](#) [G125-MV25005L0P](#) [G125-MV25005L2P](#) [G125-MV10605L0P](#)