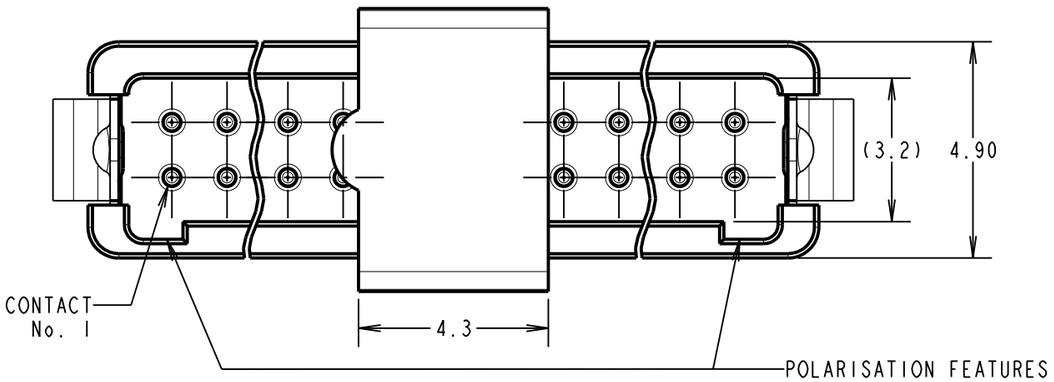
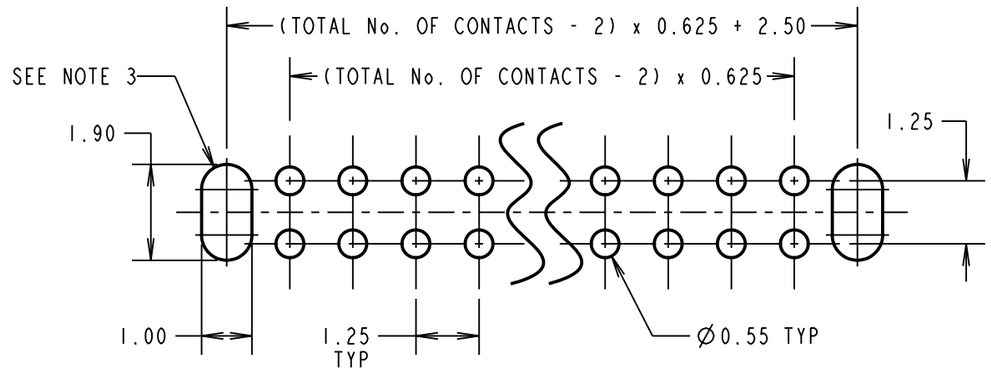
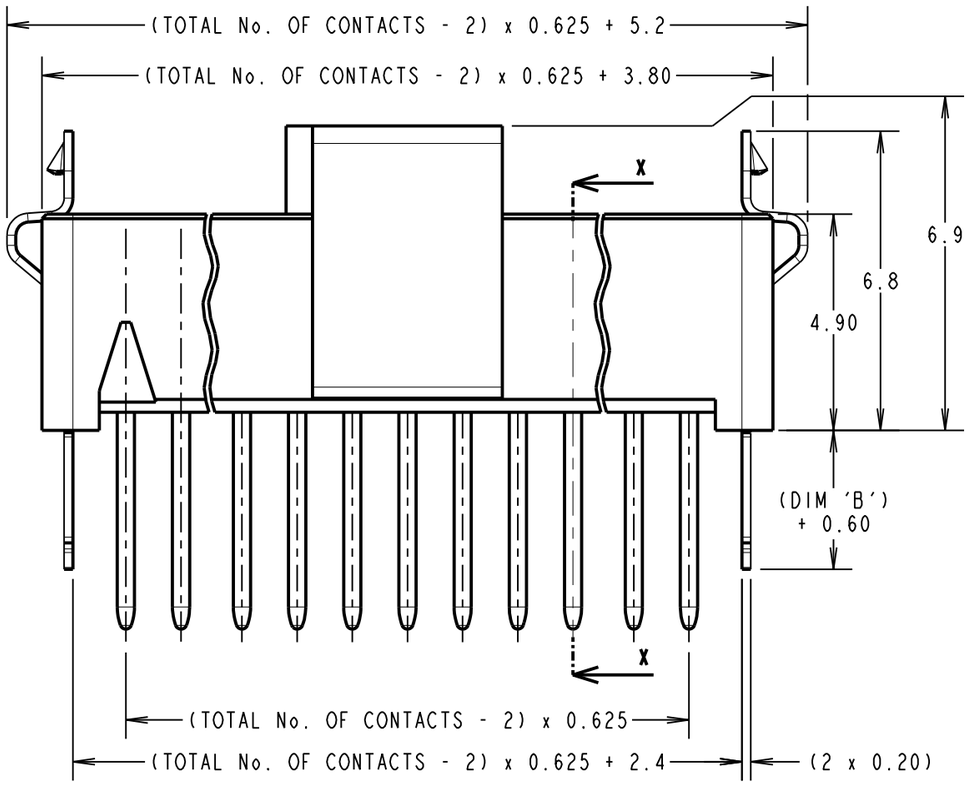
Customer Information Sheet

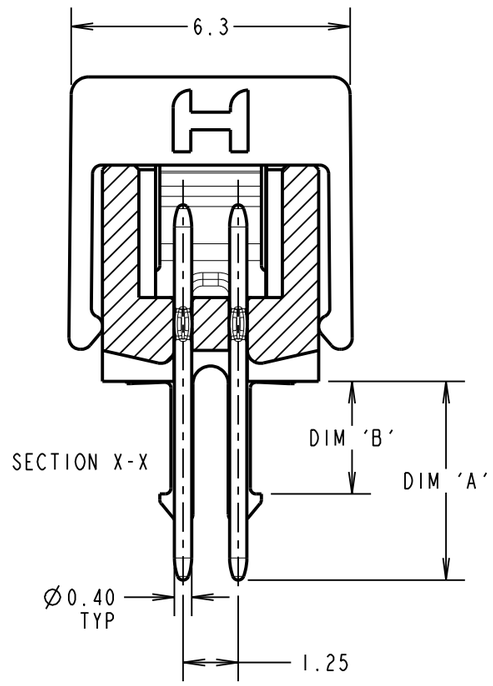
DRAWING No.: G125-MVXXX05LXP	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm



RECOMMENDED PCB LAYOUT







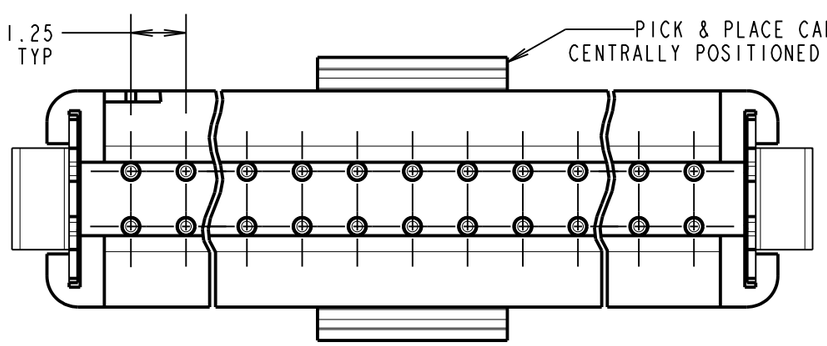
ORDER CODE: **G125-MVXXX05LXP**

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:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
2. LATCHES SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN ORDER CODE NO LATCHES WILL BE FITTED/SUPPLIED.
3. SLOTS NOT REQUIRED WHEN "L0" IS SPECIFIED IN ORDER CODE.

NAME	ISS.	DATE	C/NOTE
MR	2	22.11.18	20862

APPROVED: M.RUDKIN
CHECKED: M.PLESTED
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

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

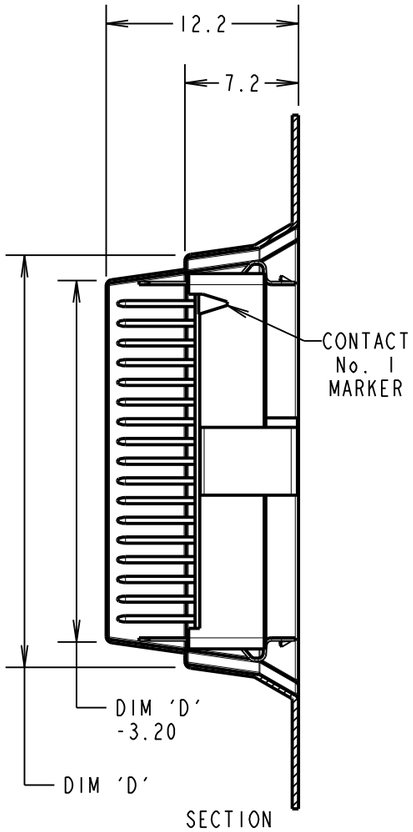
TITLE: 1.25mm GECKO MALE VERTICAL THROUGH BOARD CONNECTORS IN TAPE

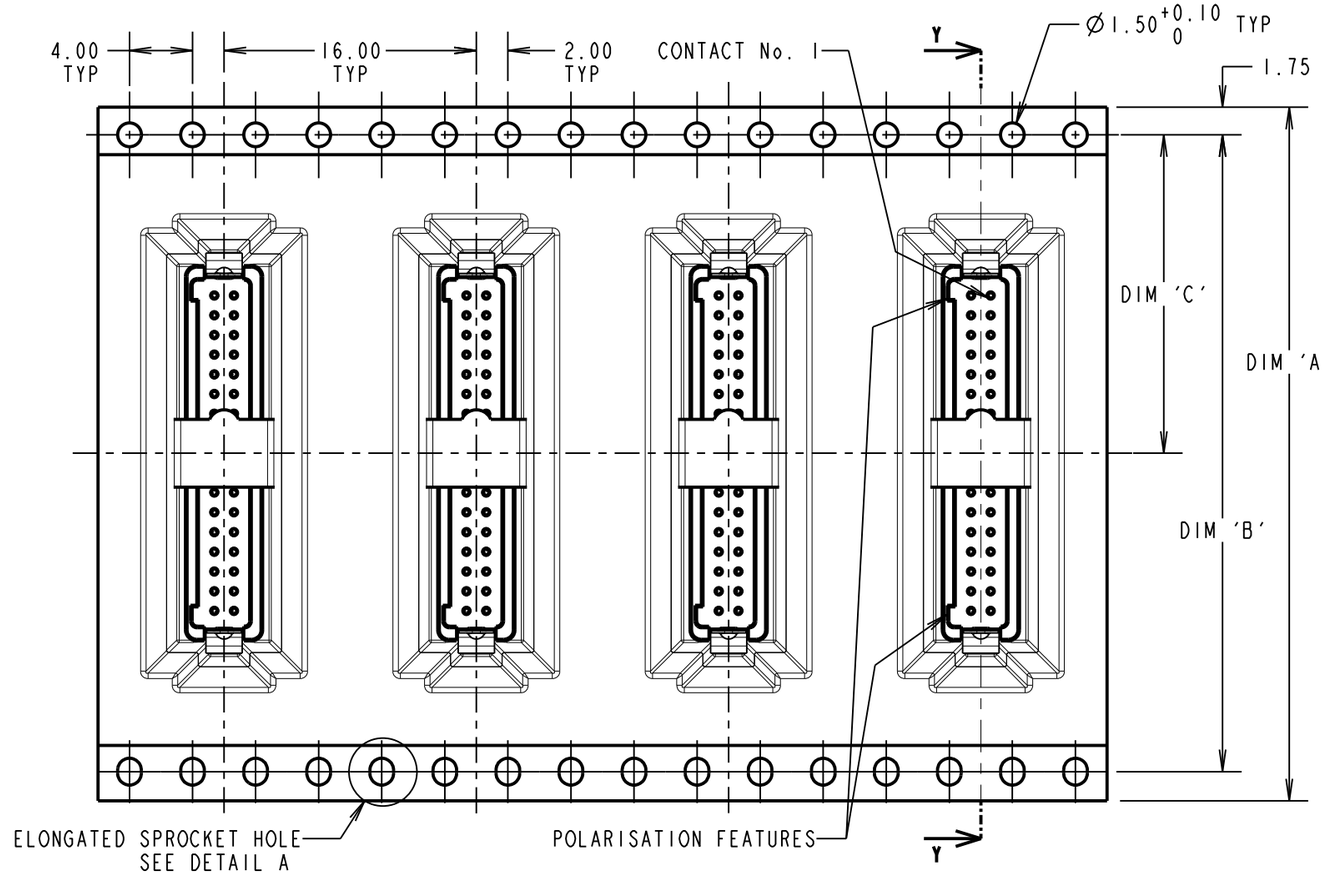
DRAWING NUMBER: G125-MVXXX05LXP

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





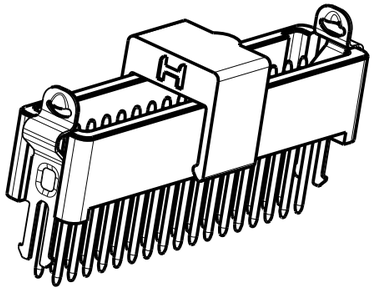
ORDER CODE: **G125-MVXXX05LXP**

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

DETAIL A
SCALE 8
SEE NOTE 8



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				(26.1)
G125-MVX5005LXP	56.0±0.3	52.40	26.2±0.15	(36.1)

NOTES:
1. COMPONENTS ARE ORIENTED IN TAPE POCKETS AS SHOWN.
2. COMPONENTS ARE SUPPLIED IN STRIPS OF TAPE. SUPPLIED QUANTITY MAY CONSIST OF MORE THAN ONE STRIP. STRIP LENGTH MAY VARY.
3. LARGE QUANTITIES MAY BE SHIPPED ON A REEL AND MAY NOT HAVE A LEADER.
4. FOR PARTS ON REEL SUITABLE FOR AUTOMATIC MACHINE PLACEMENT PLEASE ORDER: G125-MVXXX05LXR.
5. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
6. COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING AWAY FROM THE FREE END.
7. LATCHES SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN ORDER CODE NO LATCHES WILL BE FITTED/SUPPLIED.
8. ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

MR	2	22.11.18	20862
NAME	ISS.	DATE	C/NOTE

APPROVED: M.RUDKIN
CHECKED: M.PLESTED
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
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 THROUGH BOARD CONNECTORS IN TAPE
DRAWING NUMBER: G125-MVXXX05LXP
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:
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:
0.2-0.3µ 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: 65/150/56 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/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 11m/s 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 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 GΩ MIN AT 500V DC
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING
= >1 GΩ 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:
CHECKED:
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES UNLESS STATED
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°

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-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