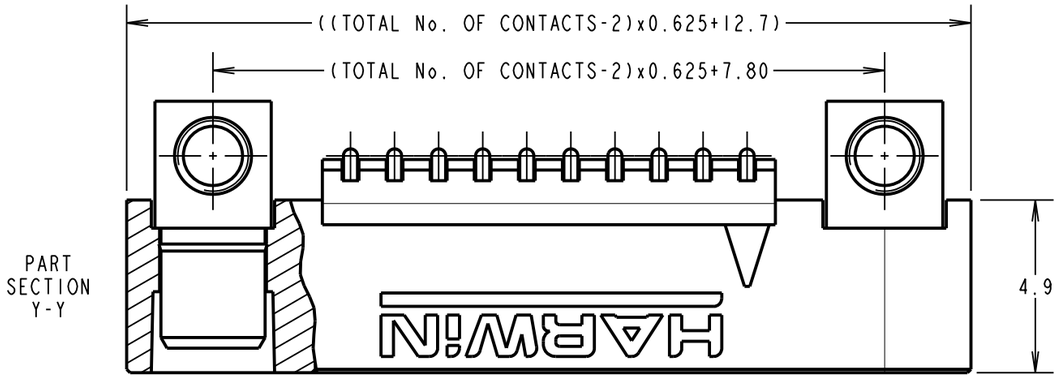
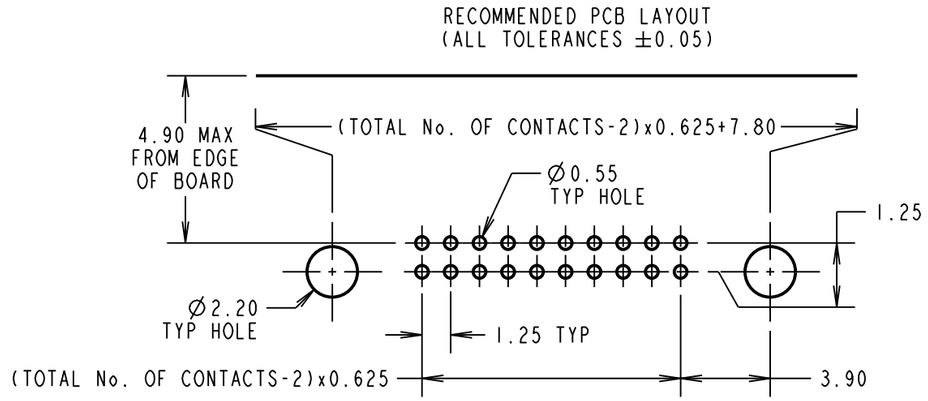
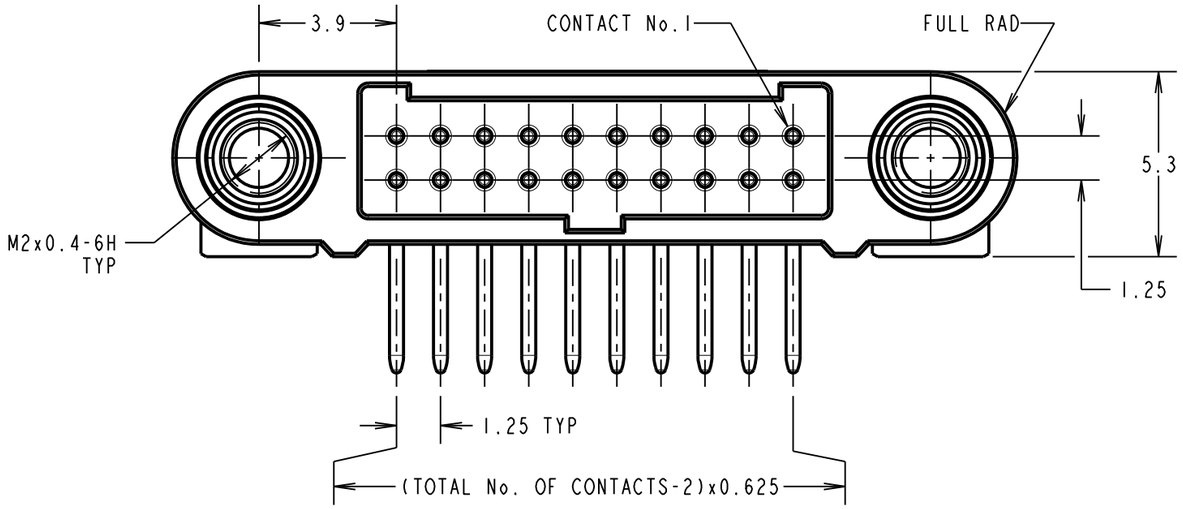
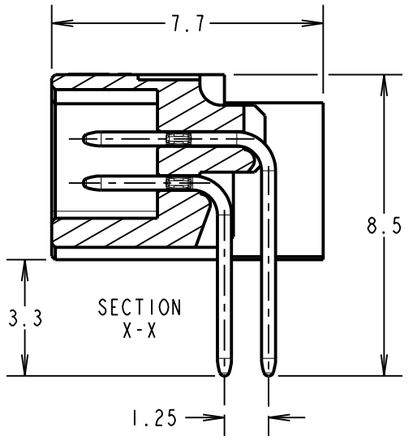
Customer Information Sheet

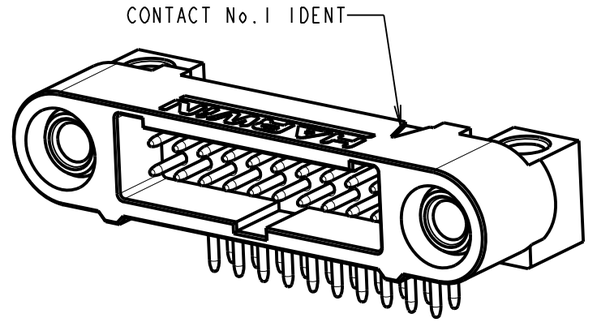
DRAWING No.: G125-MH1XX05M4P	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

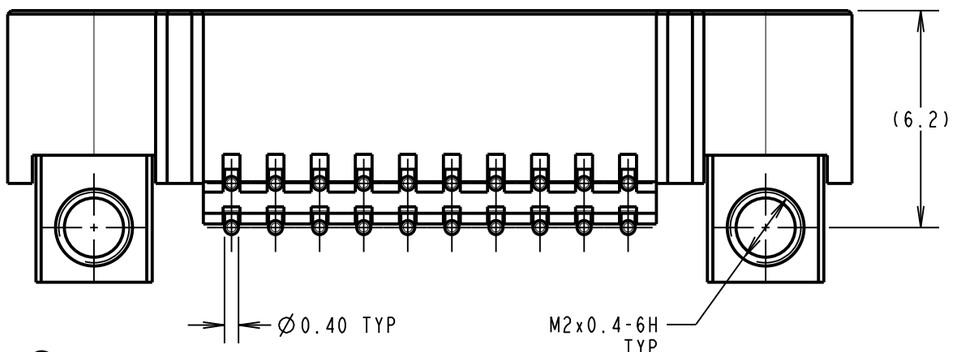












PRODUCT CODE:
G125-MH1XX05M4P
TOTAL No. OF CONTACTS
06, 10, 12, 16, 20, 26, 34 & 50.

CONNECTOR AND PCB LAYOUT DETAILS ONLY. SEE SHEET 4 FOR TAPE STRIP DETAILS.

NOTES:
1. FOR MATERIALS, FINISH AND SPECIFICATION SEE GECKO SERIES CONNECTORS SPECIFICATION SUMMARY SHEET OR COMPONENT SPECIFICATION C125XX (LATEST ISSUE) FOR FULL SPECIFICATION.
2. DRAWING SHOWS CONNECTOR WITH 20 CONTACTS.

RTP	1	20.02.20	30013
NAME	ISS.	DATE	C/NOTE
APPROVED:	R.PORTLOCK		
CHECKED:	M.RUDKIN		
DRAWN:	R.PORTLOCK		
CUSTOMER REF.:			
ASSEMBLY DRG:			

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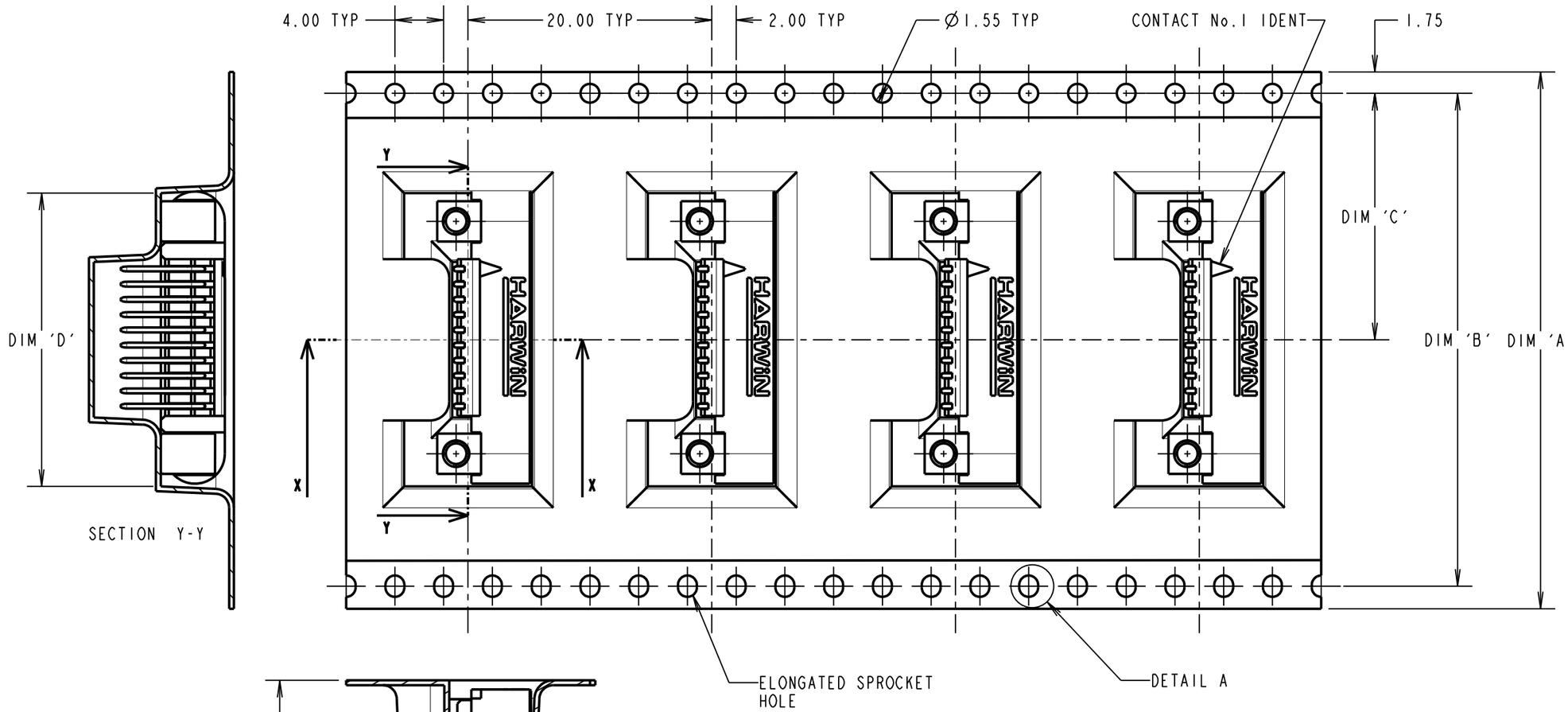
TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

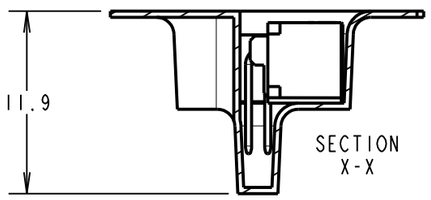
MATERIAL: SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: GECKO-SL HORIZONTAL PC-TAIL MALE CONNECTOR ASSEMBLY
DRAWING NUMBER: G125-MH1XX05M4P
SHT 3 OF 4

Customer Information Sheet

DRAWING No.: G125-MH1XX05M4P	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





TAPE STRIP DETAILS ONLY. SEE SHEET 3 FOR CONNECTOR AND PCB LAYOUT DETAILS.

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PATENTED TECHNOLOGY

PRODUCT CODE:
G125-MH1XX05M4P
TOTAL No. OF CONTACTS
06, 10, 12, 16, 20, 26, 34 & 50.

PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-MH10605M4P	32.0±0.3	28.40	14.20	15.30±0.15
G125-MH11005M4P				17.80±0.15
G125-MH11205M4P				19.05±0.15
G125-MH11605M4P	44.0±0.3	40.40	20.20±0.15	21.55±0.15
G125-MH12005M4P				24.05±0.15
G125-MH12605M4P				27.80±0.15
G125-MH13405M4P	56.0±0.3	52.40	26.20±0.15	32.80±0.15
G125-MH15005M4P				42.80±0.15

RTP	1	20.02.20	30013
NAME	ISS.	DATE	C/NOTE
APPROVED:	R.PORTLOCK		
CHECKED:	M.RUDKIN		
DRAWN:	R.PORTLOCK		
CUSTOMER REF.:			
ASSEMBLY DRG:			

NOTES CONT.:
3. COMPONENTS ARE ORIENTED IN TAPE POCKETS AS SHOWN.
4. COMPONENTS ARE SUPPLIED IN STRIPS OF TAPE. SUPPLIED QUANTITY MAY CONSIST OF MORE THAN ONE STRIP. STRIP LENGTH MAY VARY.
5. LARGE QUANTITIES MAY BE SHIPPED ON A REEL AND MAY NOT HAVE A LEADER.

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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 SHEET 3
FINISH: SEE SHEET 3
S/AREA: mm²

TITLE: GECKO-SL HORIZONTAL PC-TAIL MALE CONNECTOR ASSEMBLY
DRAWING NUMBER: **G125-MH1XX05M4P**
SHT 4 OF 4

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).

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

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TOLERANCES
X. = ±1mm
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X.XXX = ±0.01mm
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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

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