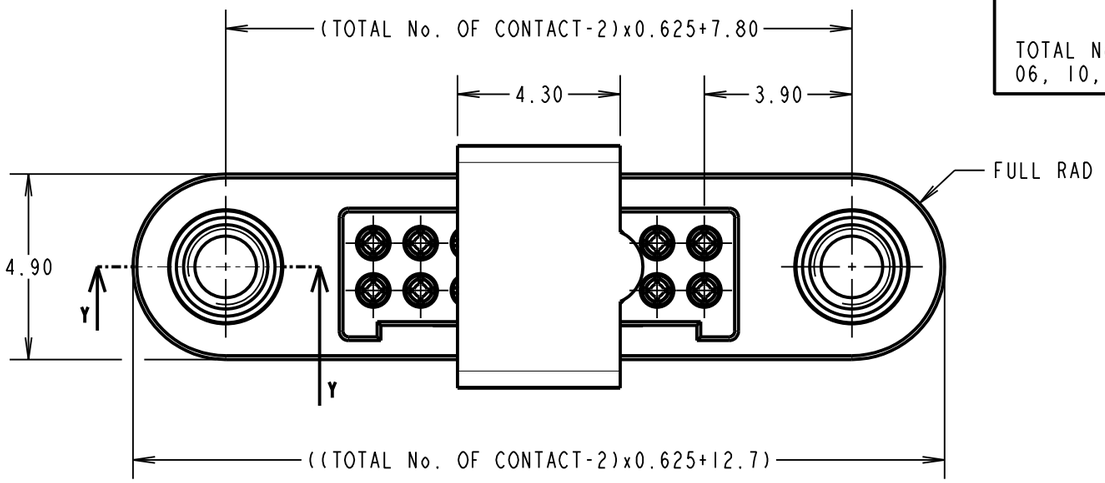
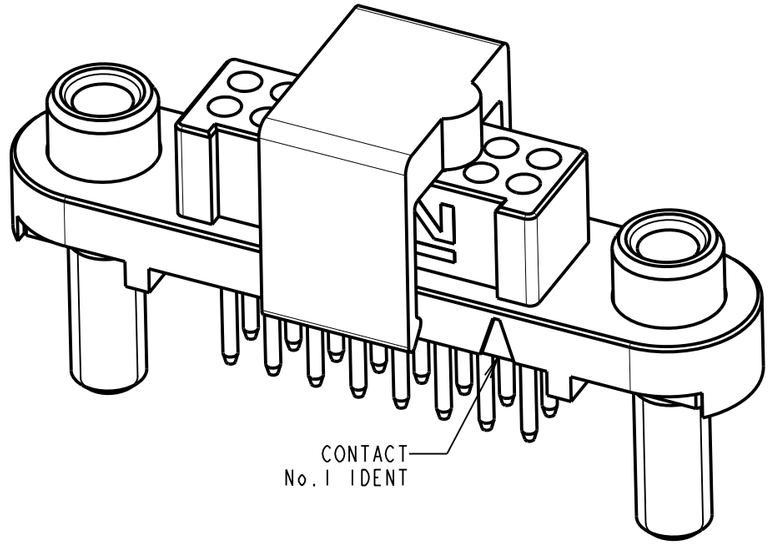
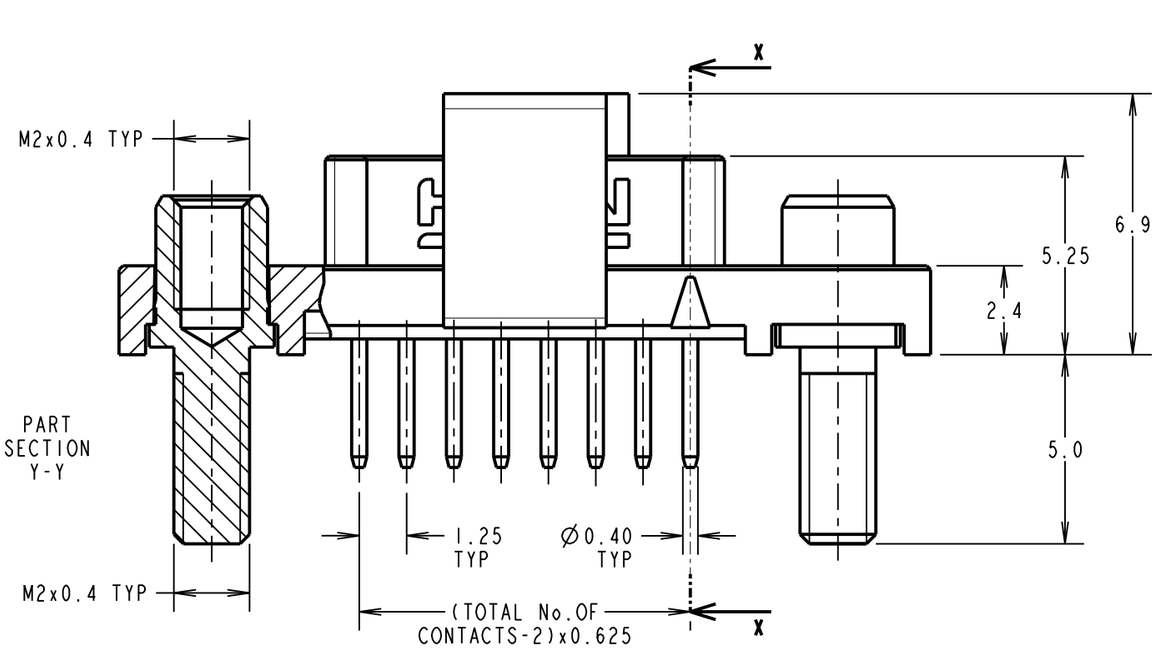
Customer Information Sheet

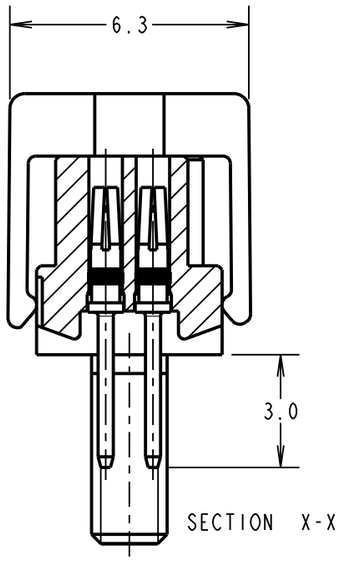
DRAWING No.: G125-FVIXX05F3R	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

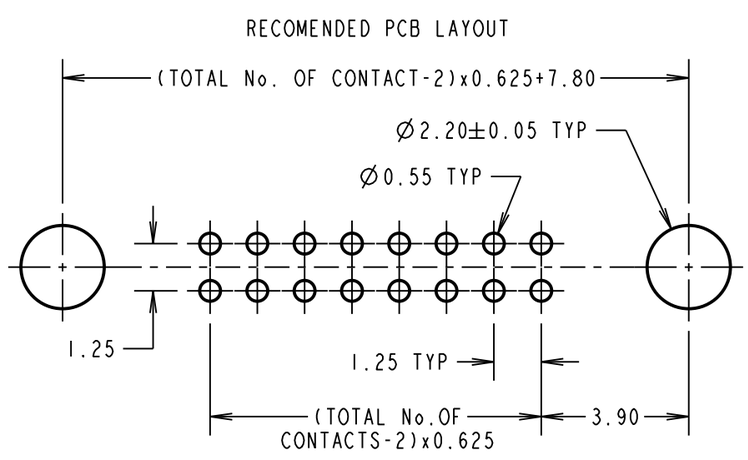
ORDER CODE:
G125-FVIXX05F3R
TOTAL No. OF CONTACTS:
06, 10, 12, 16, 20, 26, 34 & 50.











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

NOTES:
1. FOR MATERIALS, FINISH AND SPECIFICATIONS SEE GECKO SERIES SPECIFICATION SUMMARY SHEET OR COMPONENT SPECIFICATION CI25XX (LATEST ISSUE) FOR FULL SPECIFICATION.
2. DRAWING SHOWS CONNECTOR WITH 16 CONTACTS.
3. 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.

MR	1	01.11.18	21579
NAME	ISS.	DATE	C/NOTE

APPROVED: M.RUDKIN
CHECKED: S.BENNETT
DRAWN: MARK G PLESTED
CUSTOMER REF.:
ASSEMBLY DRG:

PATENTED TECHNOLOGY

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

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

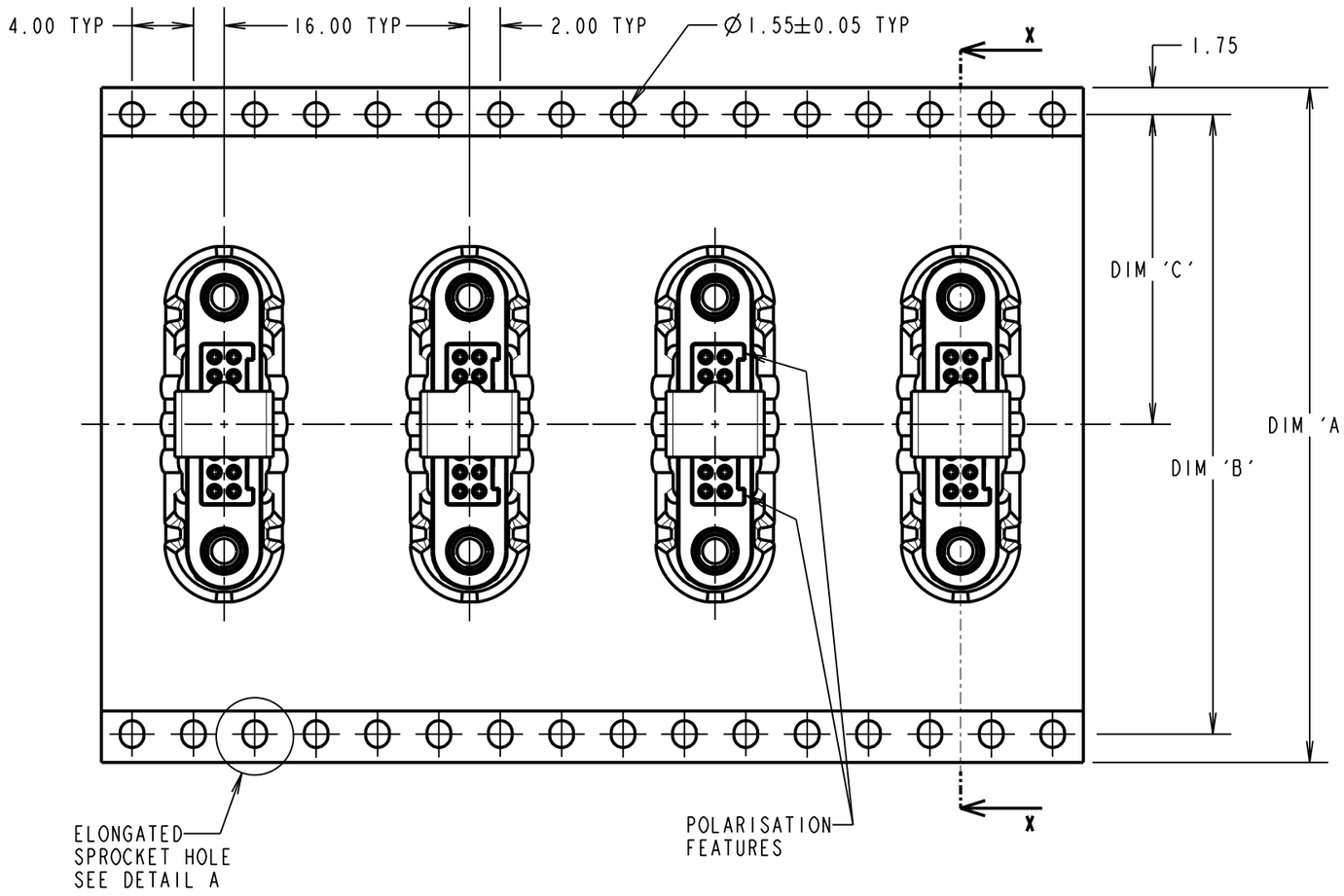
TITLE: GECKO SL REVERSE FIX FEMALE VERTICAL PCT CONNECTOR IN T&R
DRAWING NUMBER: G125-FVIXX05F3R
SHT 4 OF 5

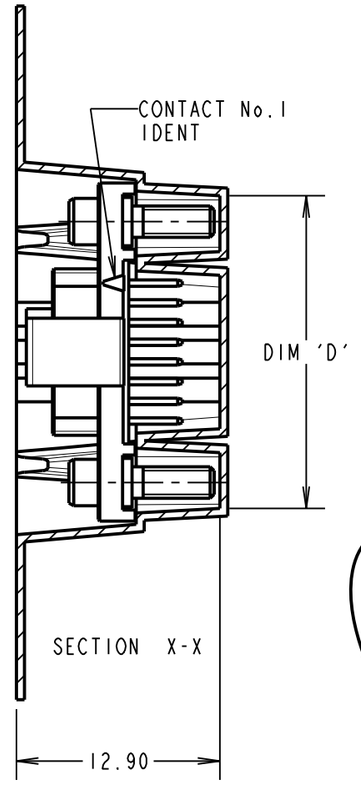
Customer Information Sheet

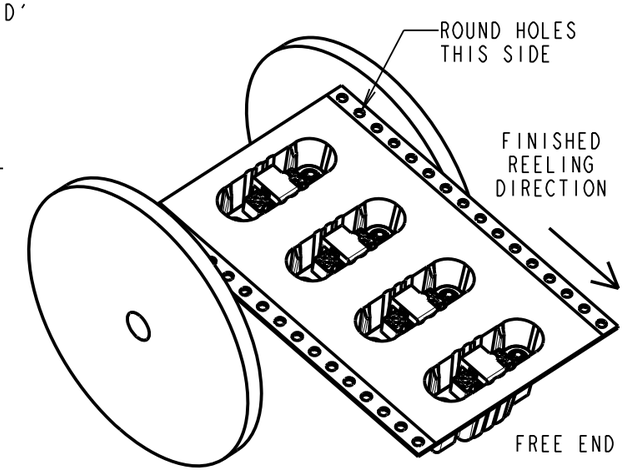
DRAWING No.: G125-FVIXX05F3R	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

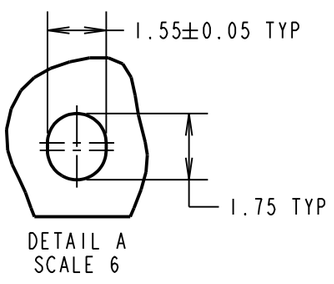
ORDER CODE: **G125-FVIXX05F3R**

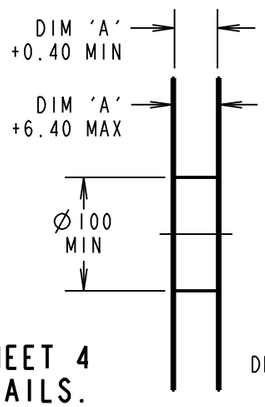
TOTAL No. OF CONTACTS: 06, 10, 12, 16, 20, 26, 34 & 50.

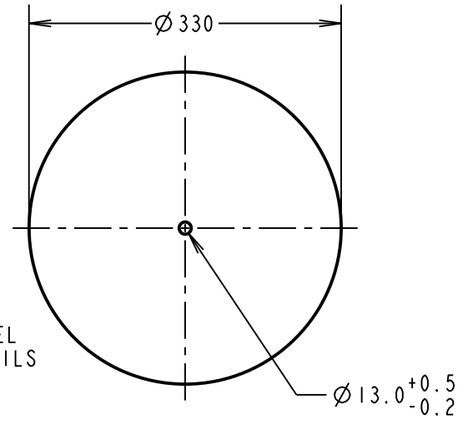












TAPE & REEL DETAILS ONLY. SEE SHEET 4 FOR CONNECTOR AND PCB LAYOUT DETAILS.

PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-FVI0605F3R	32.0±0.3	28.40	14.20	13.60
G125-FVI1005F3R				16.10
G125-FVI1205F3R				17.35
G125-FVI1605F3R	44.0±0.3	40.40	20.20±0.15	19.85
G125-FVI2005F3R				22.20±0.15
G125-FVI2605F3R				26.00±0.15
G125-FVI3405F3R	56.0±0.3	52.40	26.20±0.15	30.90±0.15
G125-FVI5005F3R				41.00±0.15

MR	1	01.11.18	21579
NAME	ISS.	DATE	C/NOTE

APPROVED: M.RUDKIN

CHECKED: S.BENNETT

DRAWN: MARK G PLESTED

CUSTOMER REF.:

ASSEMBLY DRG:

NOTES CONT.:
4. THIS PRODUCT IS TAPE AND REELED IN GENERAL ACCORDANCE WITH EIA-481 (ELECTRONICS INDUSTRIES ASSOCIATION).
5. COMPONENTS ARE ORIENTATED IN TAPE POCKETS AS SHOWN.
6. COMPONENTS ARE SUPPLIED IN REELS OF 250 CONNECTORS.
7. SEE DRAWING G125-FVIXX05F3P FOR OTHER QUANTITIES.

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 SHEET 4

FINISH: SEE SHEET 4

S/AREA: mm²

TITLE: GECKO SL REVERSE FIX FEMALE VERTICAL PCT CONNECTOR IN T&R

DRAWING NUMBER: G125-FVIXX05F3R

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:			

gecko

PATENTED TECHNOLOGY

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technical@harwin.com

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: 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-FV11205F3R G125-FV11605F3R G125-FV12005F3R G125-FV12605F3R G125-FV13405F3R G125-FV15005F3R G125-FV10605F3R G125-FV11005F3R