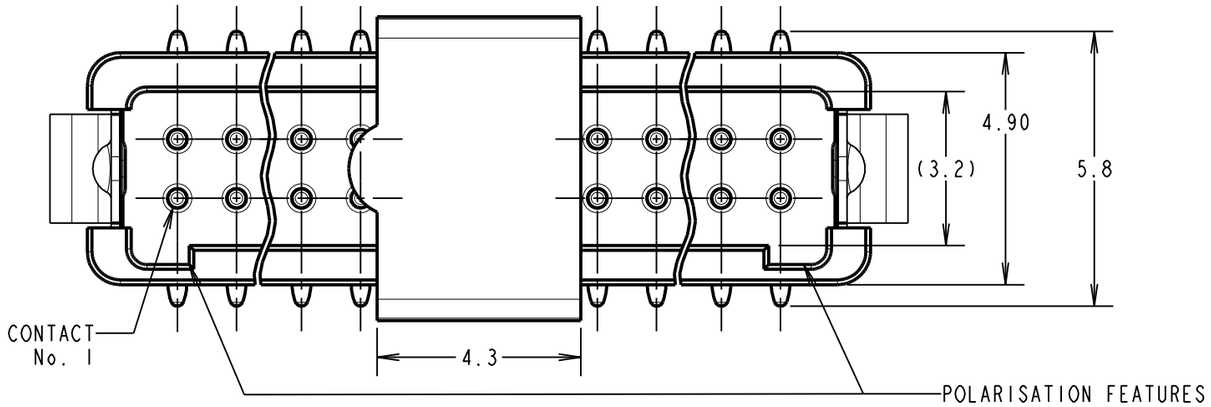
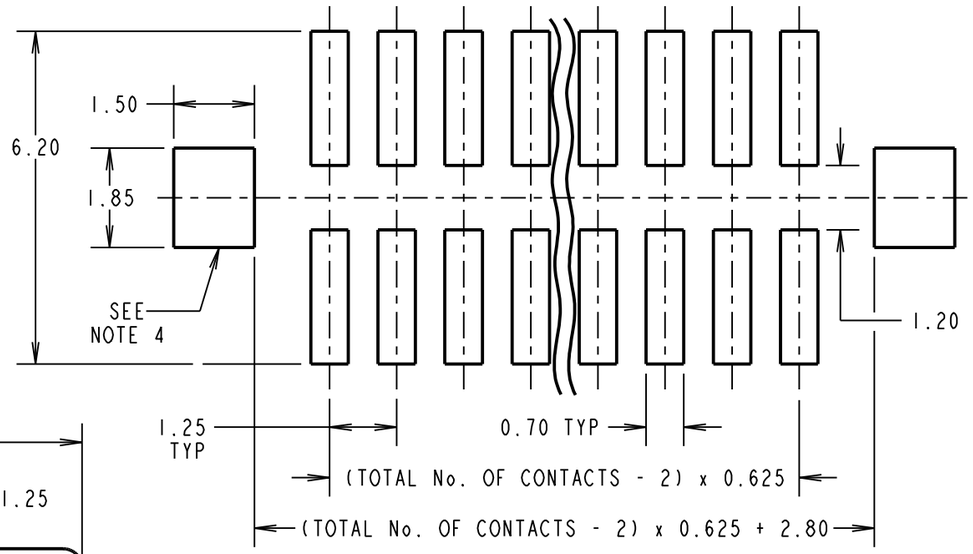
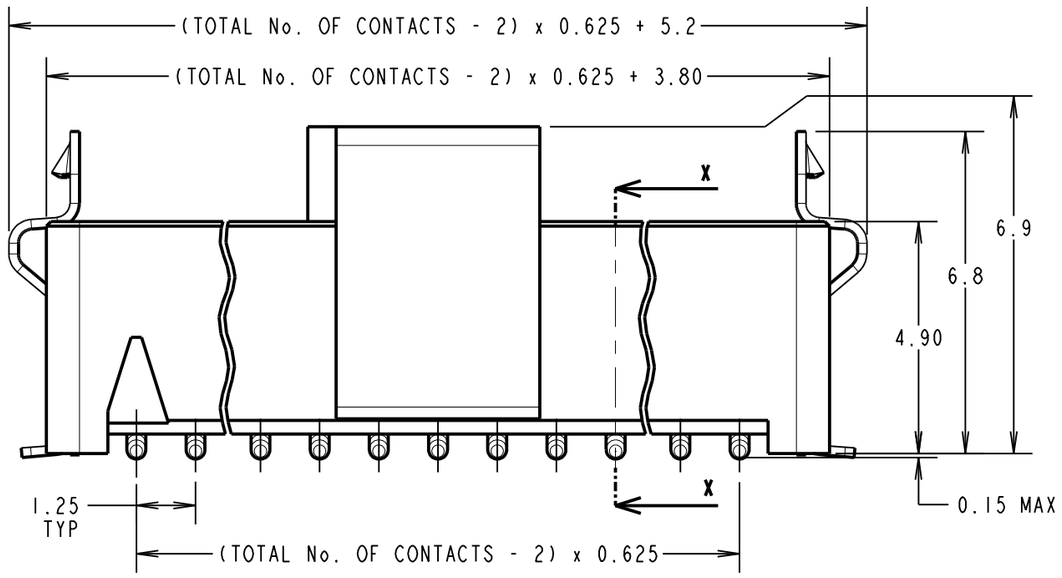
Customer Information Sheet

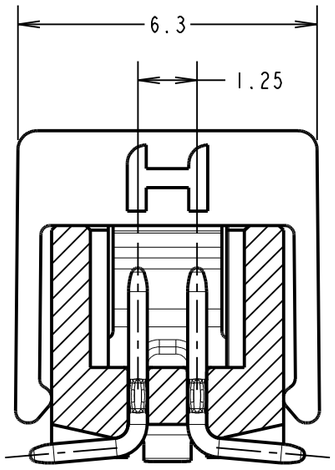
DRAWING No.: G125-MSIXX05LXX	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





RECOMMENDED PCB LAYOUT





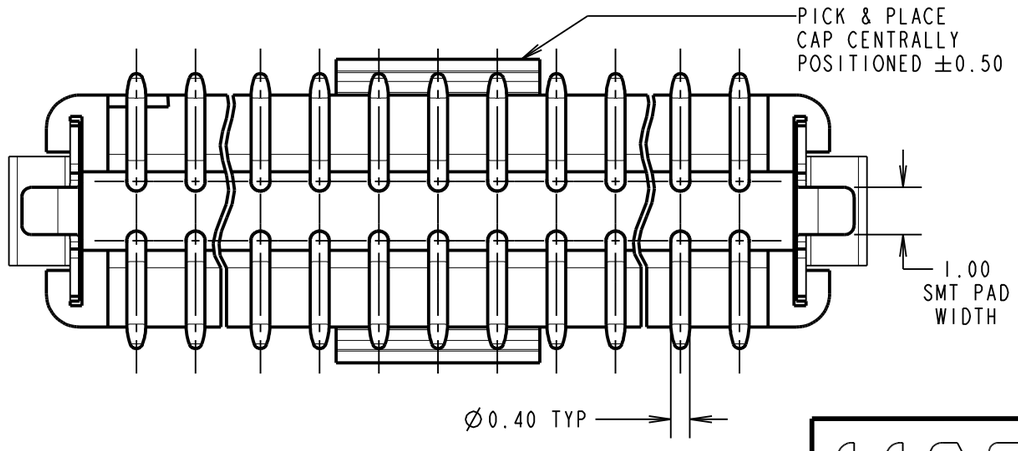
SECTION X-X

ORDER CODE: **G125-MSIXX05LXX**

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

LATCHES:
NO LATCHES = L0
SMT LATCHES = L3

PACK TYPE:
R = 400PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)



CONNECTOR DETAILS AND PCB LAYOUT ONLY
SEE SHEET 3 FOR TAPE AND REEL DETAILS

NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
2. CO-PLANARITY OF SMT TAILS AND LATCHES NOT TO EXCEED 0.10mm. RECOMMENDED SOLDER PASTE THICKNESS = 0.125mm MIN.
3. LATCHES SHOWN FOR ILLUSTRATION ONLY. WHEN "L0" IS SPECIFIED IN ORDER CODE NO LATCHES WILL BE FITTED/SUPPLIED.
4. PADS NOT REQUIRED WHEN "L0" IS SPECIFIED IN ORDER CODE.
5. SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.

MSP	2	12.05.15	12896
NAME	ISS.	DATE	C/NOTE

APPROVED:	M.PERREN
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 SHEET 4

FINISH:

S/AREA: mm²

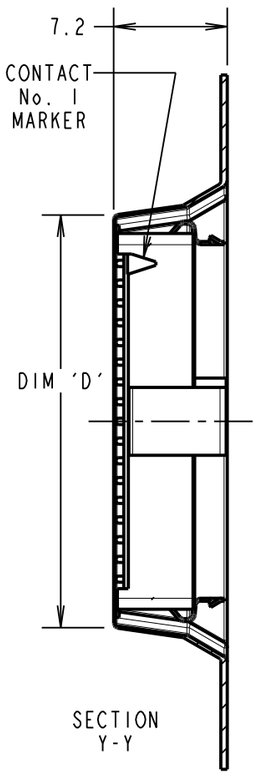
TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL

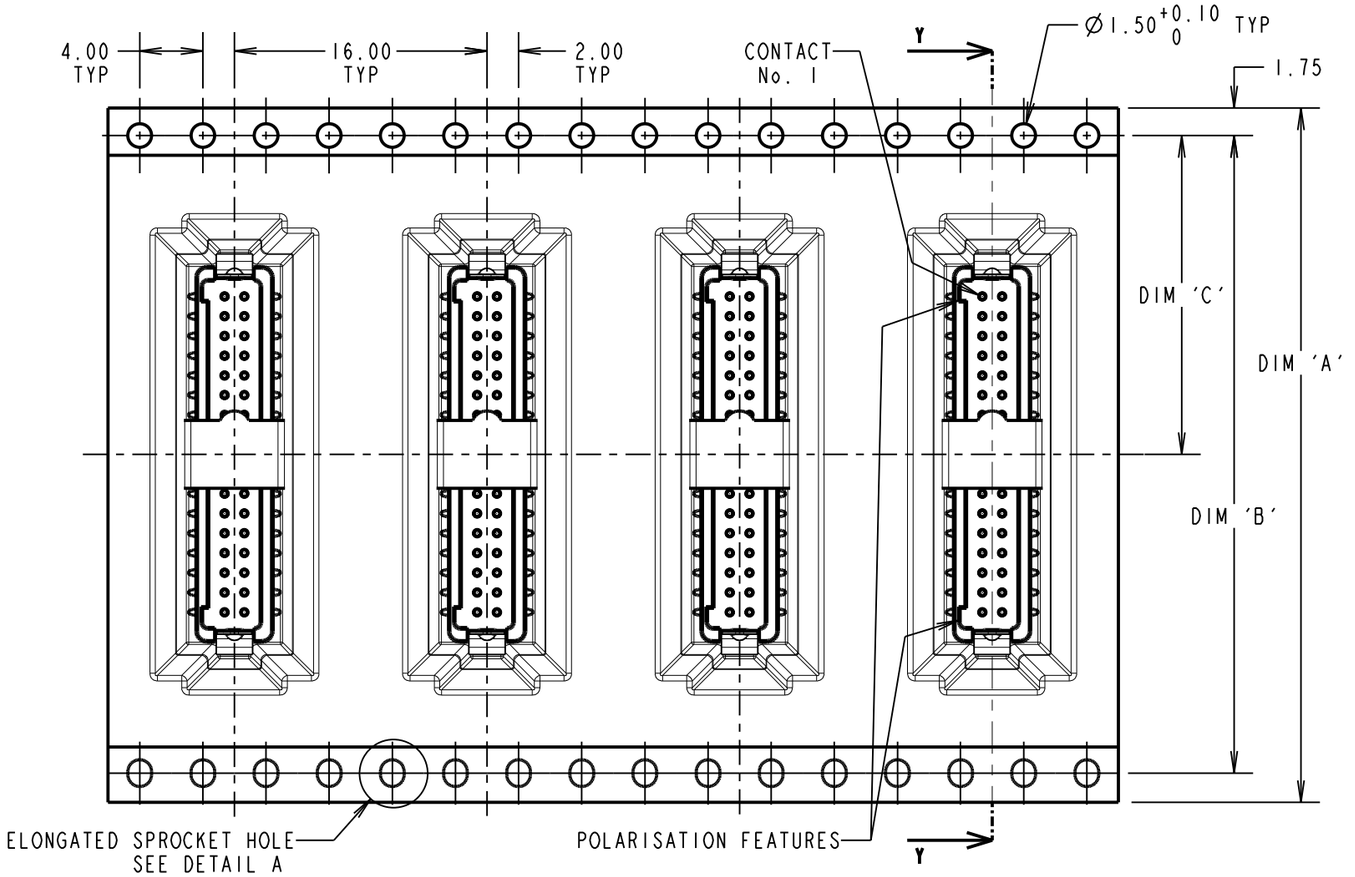
DRAWING NUMBER: G125-MSIXX05LXX

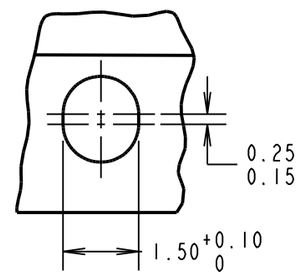
SHT 2 OF 4

Customer Information Sheet

DRAWING No.: G125-MSIXX05LXX	SHEET 2 OF 2	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





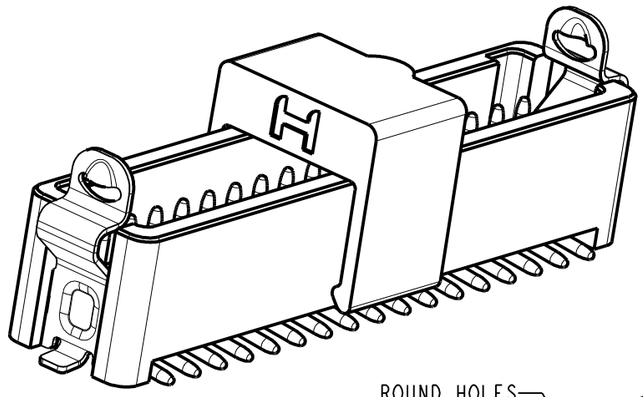


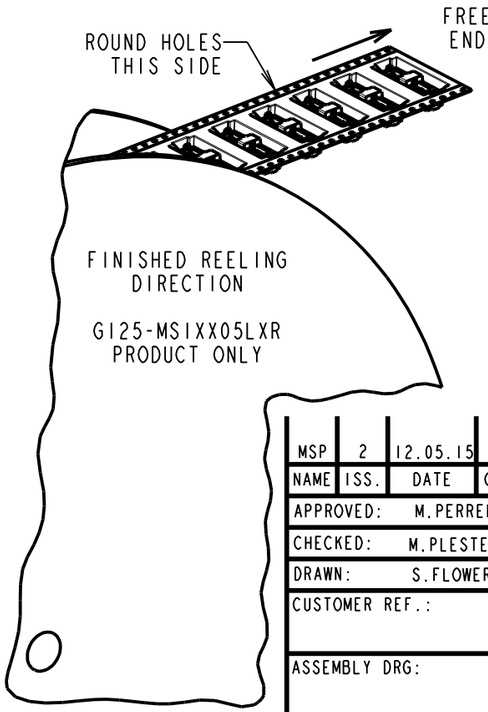
ORDER CODE: **G125-MSIXX05LXX**

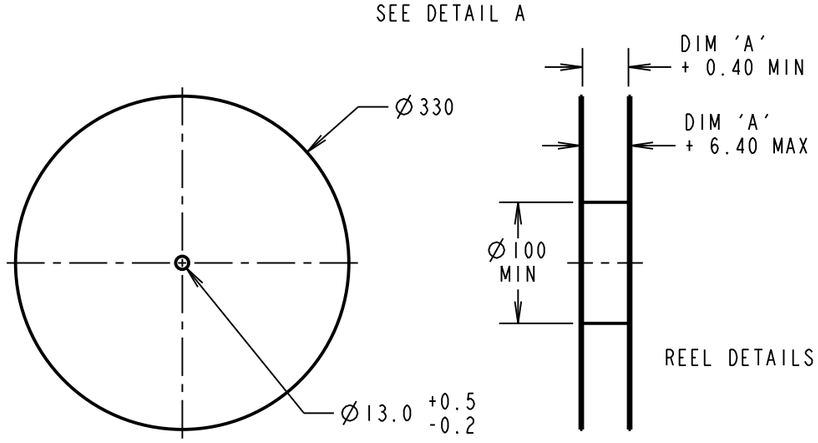
TOTAL No. OF CONTACTS:
06, 10, 12, 16, 20, 26, 34, 50

LATCHES:
NO LATCHES = L0
SMT LATCHES = L3

PACK TYPE:
R = 400PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)







REELED PART No.	LOOSE PART No.	DIM 'A'	DIM 'B'	DIM 'C'	(DIM 'D')
G125-MSI0605LXR	G125-MSI0605LXP	24.0±0.3	NO ELONGATED HOLE	11.50	(8.6)
G125-MSI1005LXR	G125-MSI1005LXP				(11.1)
G125-MSI1205LXR	G125-MSI1205LXP	32.0±0.3	28.40	14.20	(12.4)
G125-MSI1605LXR	G125-MSI1605LXP				(14.9)
G125-MSI2005LXR	G125-MSI2005LXP	44.0±0.3	40.40	20.2±0.15	(17.4)
G125-MSI2605LXR	G125-MSI2605LXP				(21.1)
G125-MSI3405LXR	G125-MSI3405LXP				(26.1)
G125-MSI5005LXR	G125-MSI5005LXP	56.0±0.3	52.40	26.2±0.15	(36.1)

NOTES:
1. FOR "R" QUANTITY OF COMPONENTS PER REEL = 400.
2. FOR "P" QUANTITIES ARE EACH AND CUT FROM G125-MSIXX05LXR.
3. THIS PRODUCT IS TAPED AND REELED IN ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
4. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
5. COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING AWAY FROM THE FREE END.
6. CO-PLANARITY OF SMT TAILS AND LATCHES NOT TO EXCEED 0.10mm.
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.

MSP	2	12.05.15	12896
NAME	ISS.	DATE	C/NOTE

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

HARWIN
www.harwin.com
technical@harwin.com

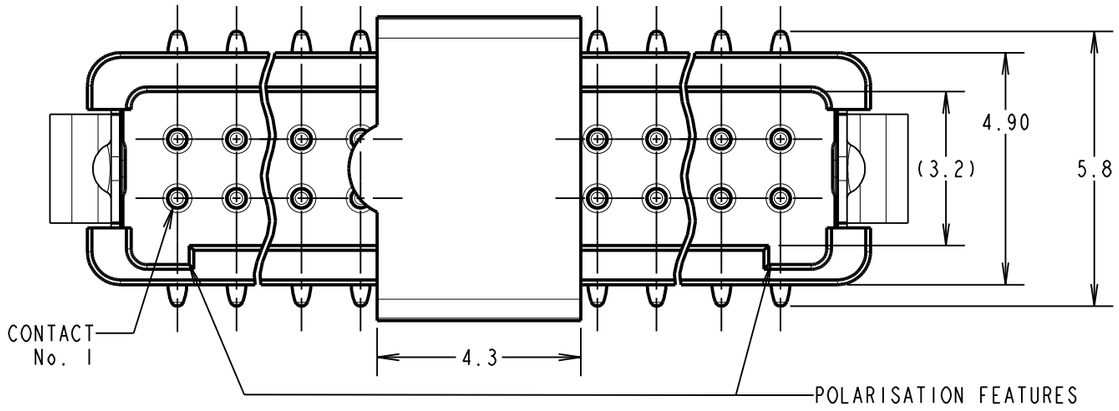
TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

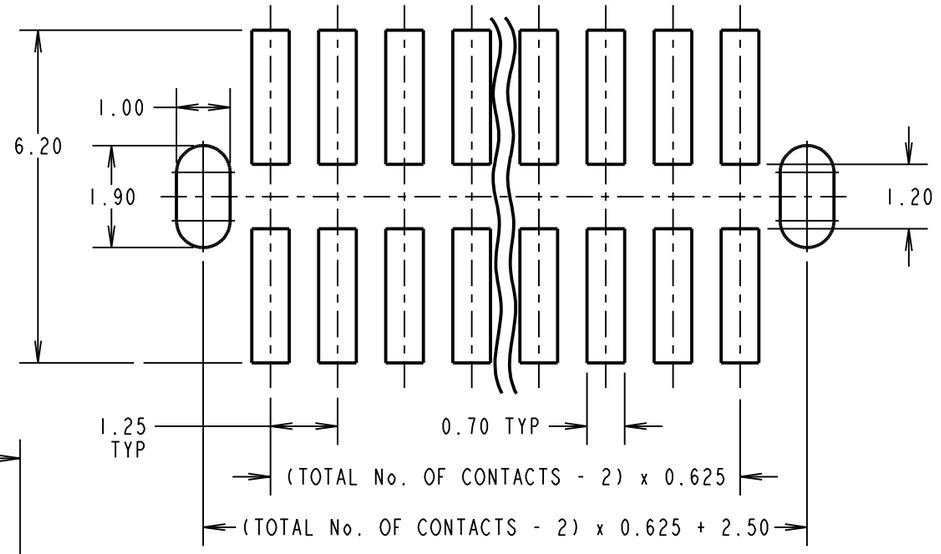
MATERIAL: SEE SHEET 4
FINISH:
S/AREA: mm²

TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL
DRAWING NUMBER: G125-MSIXX05LXX
SHT 3 OF 4

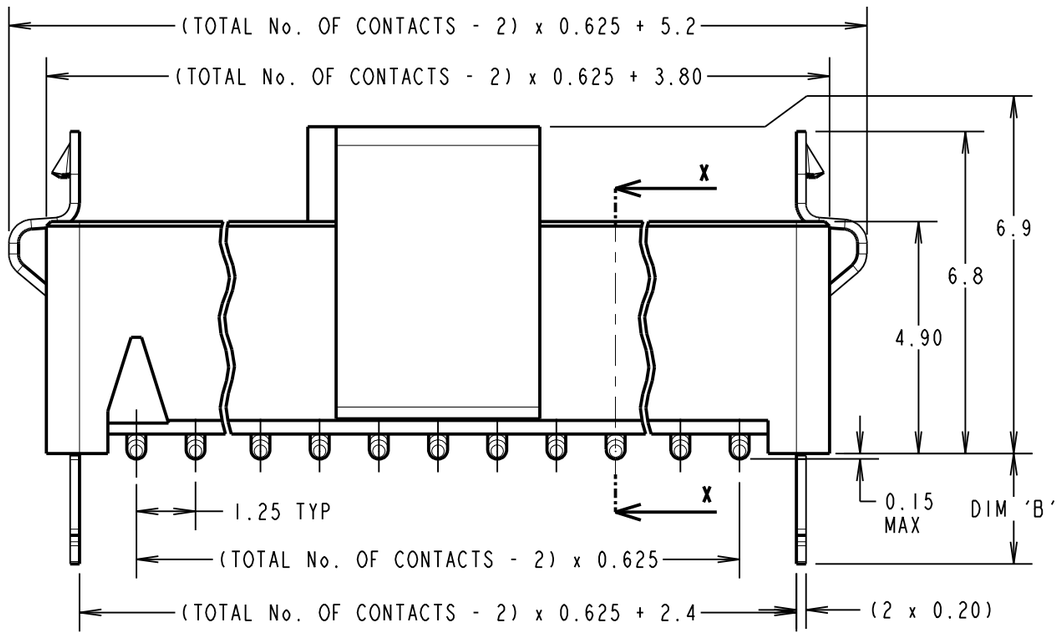
Customer Information Sheet

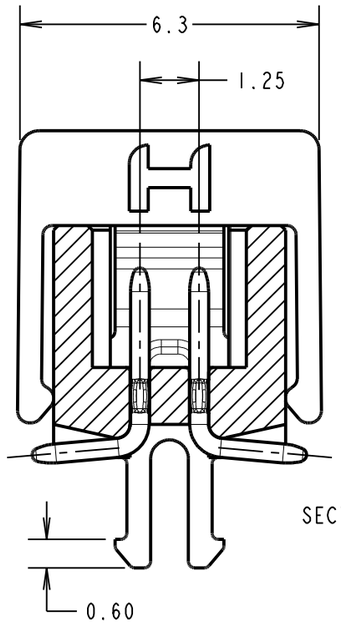
DRAWING No.: G125-MSIXX05LXX	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





RECOMMENDED PCB LAYOUT





SECTION X-X

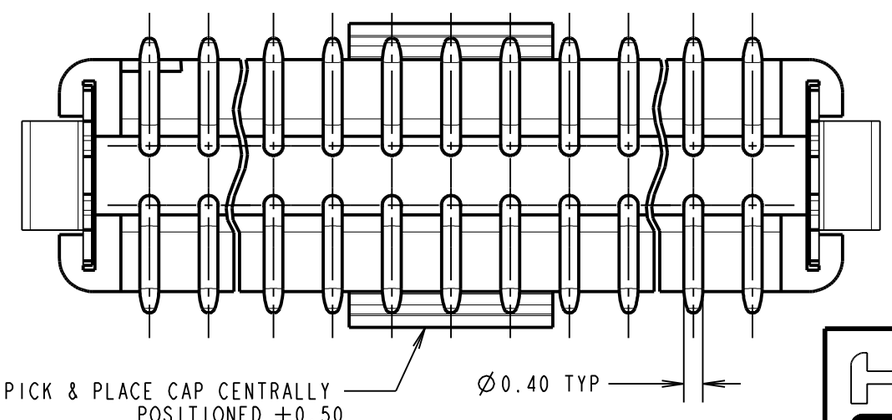
LATCH STYLE	DIM 'B'
L1	2.20
L2	3.00

ORDER CODE: **G125-MSIXX05LXX**

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

LATCHES:
1.6mm LATCHES = L1
2.4mm LATCHES = L2

PACK TYPE:
R = 250PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)



CONNECTOR DETAILS AND PCB LAYOUT ONLY
SEE SHEET 3 FOR TAPE AND REEL DETAILS

NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
2. CO-PLANARITY OF SMT TAILS AND LATCHES NOT TO EXCEED 0.10mm. RECOMMENDED SOLDER PASTE THICKNESS = 0.125mm MIN.
3. SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.

MSP	2	06.05.15	12896
NAME	ISS.	DATE	C/NOTE
APPROVED:	M.PERREN		
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 SHEET 4

FINISH:

S/AREA: mm²

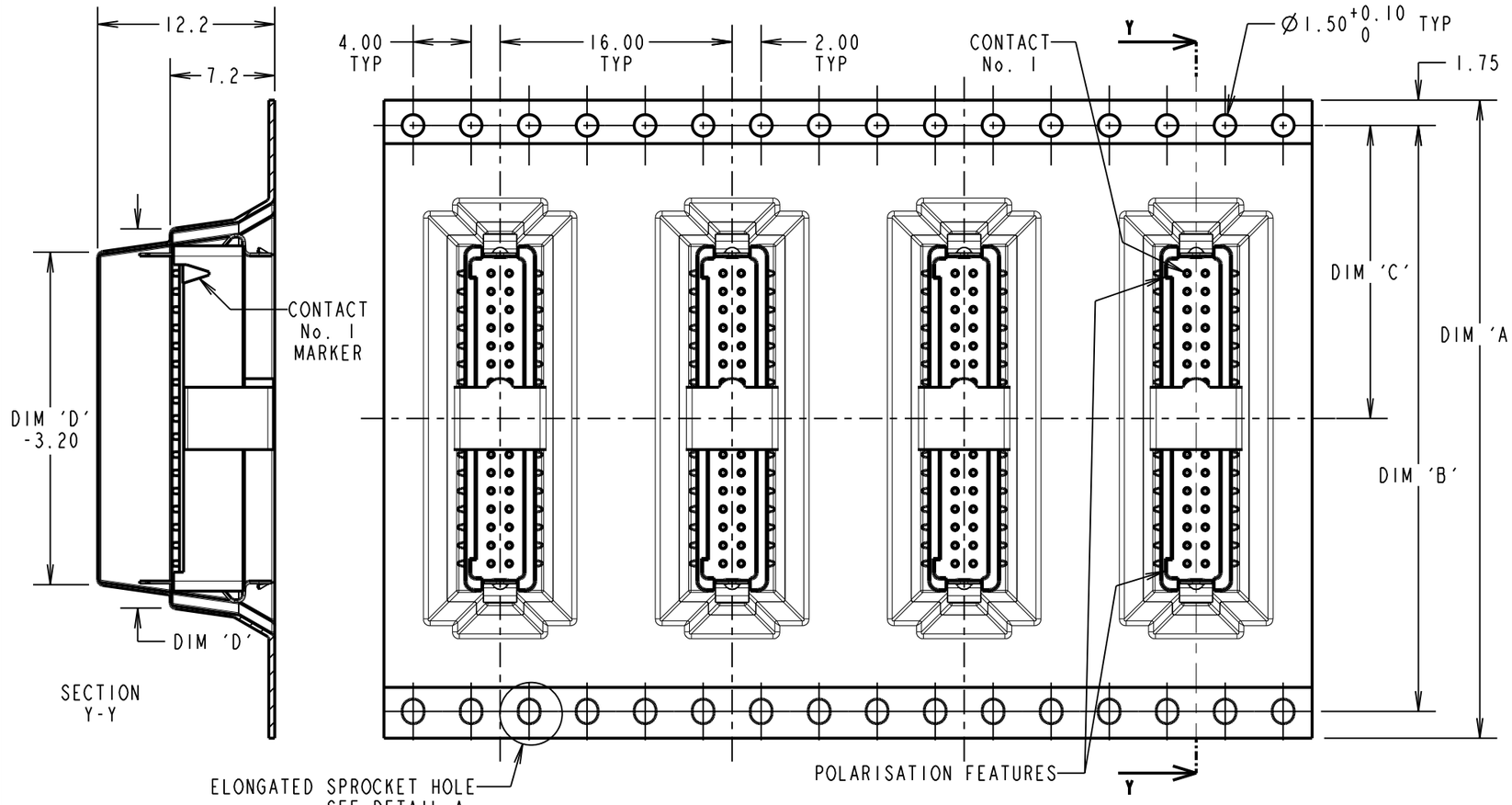
TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL

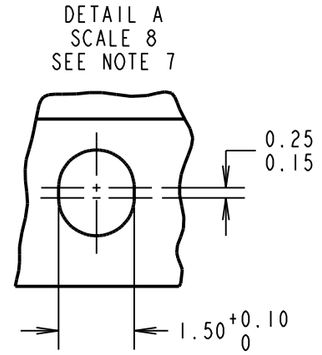
DRAWING NUMBER: G125-MSIXX05LXX

SHT 2 OF 4

Customer Information Sheet

DRAWING No.: G125-MSIXX05LXX	SHEET 2 OF 2	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm



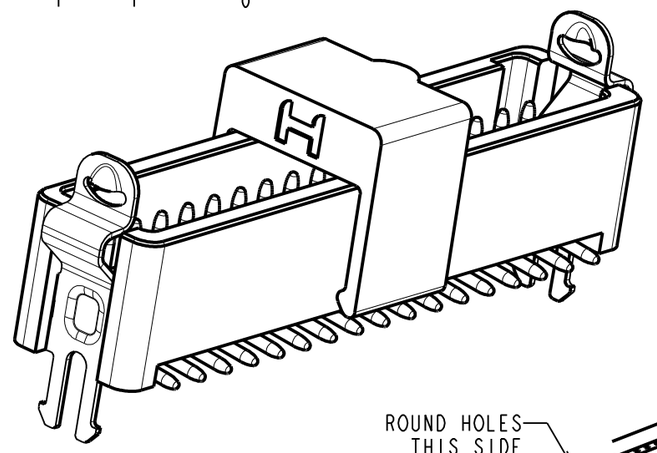


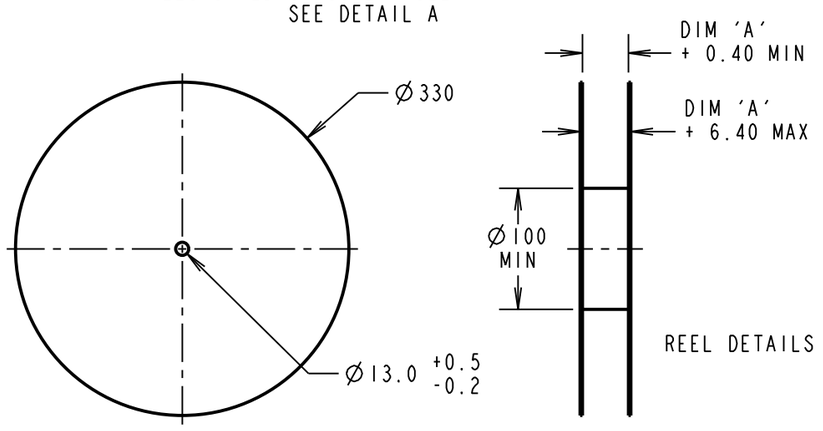
ORDER CODE: **G125-MSIXX05LXX**

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

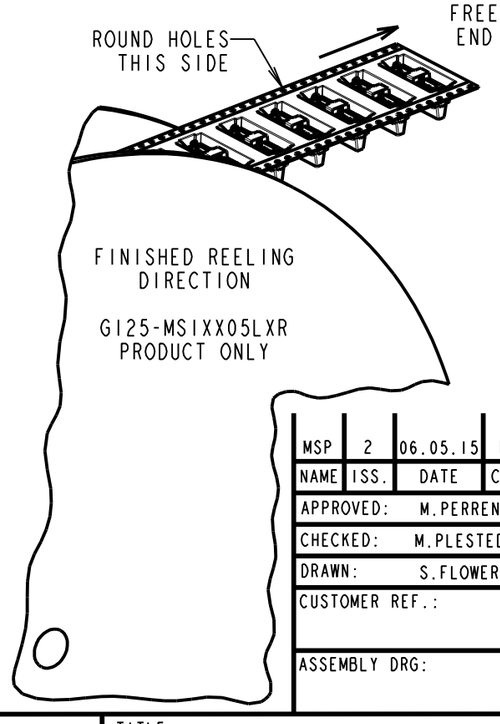
LATCHES:
1.6mm LATCHES = L1
2.4mm LATCHES = L2

PACK TYPE:
R = 250PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)





REELED PART No.	LOOSE PART No.	DIM 'A'	DIM 'B'	DIM 'C'	(DIM 'D')
G125-MSI0605LXR	G125-MSI0605LXP	24.0±0.3	NO ELONGATED HOLE	11.50	(8.6)
G125-MSI1005LXR	G125-MSI1005LXP				(11.1)
G125-MSI1205LXR	G125-MSI1205LXP	32.0±0.3	28.40	14.20	(12.4)
G125-MSI1605LXR	G125-MSI1605LXP				(14.9)
G125-MSI2005LXR	G125-MSI2005LXP	44.0±0.3	40.40	20.2±0.15	(17.4)
G125-MSI2605LXR	G125-MSI2605LXP				(21.1)
G125-MSI3405LXR	G125-MSI3405LXP				(26.1)
G125-MSI5005LXR	G125-MSI5005LXP	56.0±0.3	52.40	26.2±0.15	(36.1)



NOTES:
1. FOR "R" QUANTITY OF COMPONENTS PER REEL = 250.
2. FOR "P" QUANTITIES ARE EACH AND CUT FROM G125-MSIXX05LXR.
3. THIS PRODUCT IS TAPED AND REELED IN ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
4. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
5. COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING AWAY FROM THE FREE END.
6. CO-PLANARITY OF SMT TAILS AND LATCHES NOT TO EXCEED 0.10mm.
7. ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

MSP	2	06.05.15	12896
NAME	ISS.	DATE	C/NOTE

APPROVED: M.PERREN
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 SHEET 4
FINISH:
S/AREA: mm²

TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL
DRAWING NUMBER: G125-MSIXX05LXX
SHT 3 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:
MALE PC-TAIL/SMT = PHOSPHOR BRONZE
MALE CRIMP = BRASS
ALL FEMALE CONTACTS = COPPER ALLOY

LATCHES:
COPPER NICKEL TIN ALLOY

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 AC/DC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar) = 250V AC/DC PEAK

VOLTAGE PROOF AT SEA LEVEL (1013mbar) = 600V AC/DC 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).

gecko

PATENT PENDING - UK 1205109.0

SF	21.11.13	12281
NAME	DATE	C/NOTE
APPROVED:	S.FLOWER	
CHECKED:	S.BENNETT	
DRAWN:	S.FLOWER	

HARWIN

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technical@harwin.com

TOLERANCES
X = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE

FINISH: SEE ABOVE

TITLE: G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER: G125-SERIES CONNECTORS

SHT 3 OF 3

Mouser Electronics

Authorized Distributor

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

Harwin:
G125-MS11005L3P G125-MS10605L3P G125-MC10605L4-0450L G125-MC11205L4-0150L G125-MS10605L0P G125-MS10605L0R G125-MS10605L3R G125-MS11005L0P G125-MS11005L0R G125-MS11005L3R G125-MS11205L0R G125-MS11205L3R G125-MS11605L0R G125-MS11605L3R G125-MS12005L0R G125-MS12005L3R G125-MS12605L0R G125-MS12605L3R G125-MS13405L0P G125-MS13405L0R G125-MS13405L3P G125-MS13405L3R G125-MS15005L0P