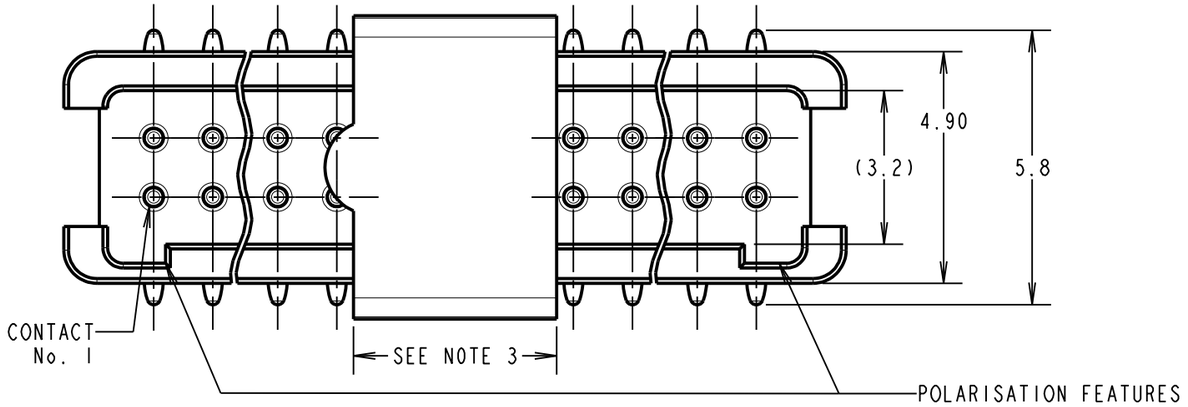
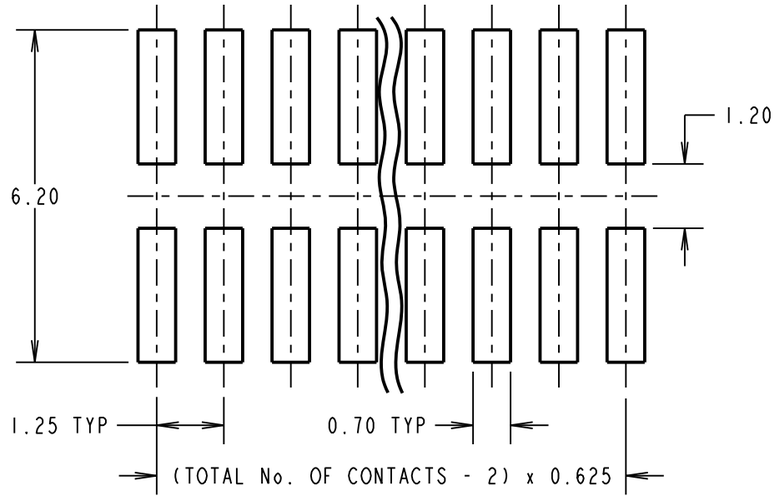
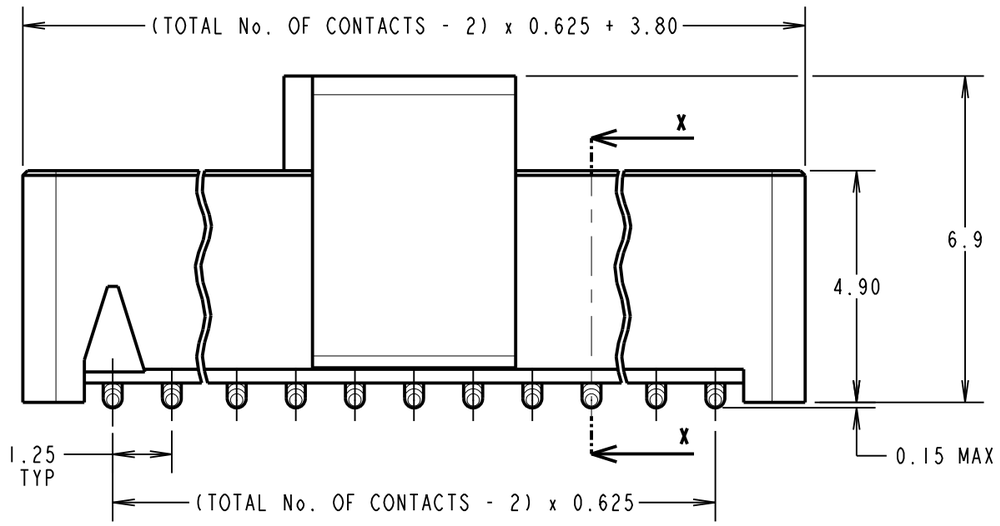
Customer Information Sheet

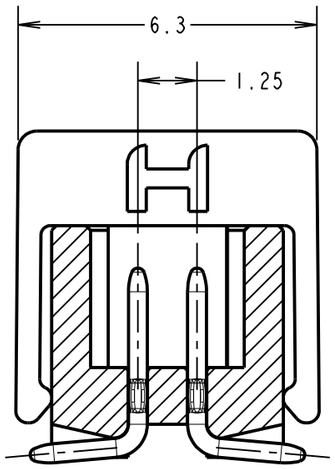
DRAWING No.: G125-MSIXX05LOR	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm



RECOMMENDED PCB LAYOUT - TOLERANCE = ±0.05



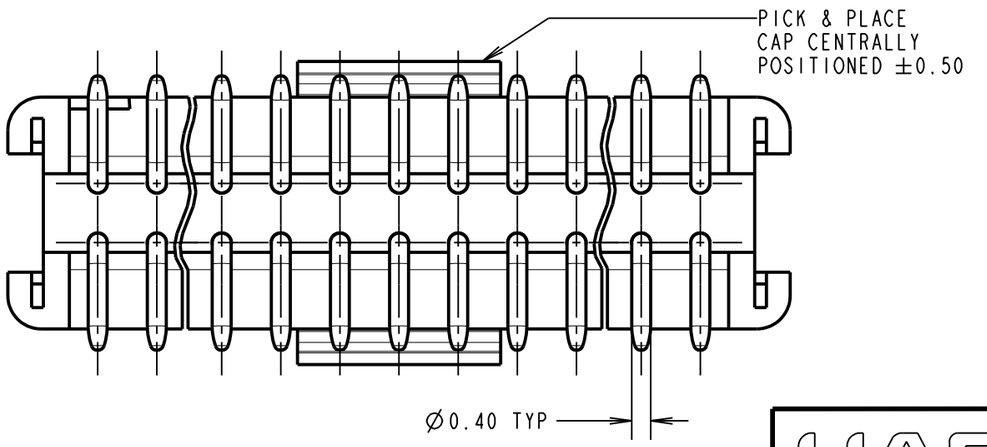




SECTION X-X

ORDER CODE: **G125-MSIXX05LOR**

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



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

NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
2. CO-PLANARITY OF SMT TAILS NOT TO EXCEED 0.10mm. RECOMMENDED SOLDER PASTE THICKNESS = 0.125mm MIN.
3. PICK AND PLACE CAP LENGTH = 4.3mm ON ALL PART NUMBERS EXCEPT G125-MS10605LOR ON THIS PART LENGTH = 3.3mm.

MGP	5	20.02.20	21885
NAME	ISS.	DATE	C/NOTE

APPROVED:	MGP
CHECKED:	RA
DRAWN:	S.FLOWER
CUSTOMER REF.:	
ASSEMBLY DRG:	

HARWIN
www.harwin.com
technical@harwin.com

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: mm²

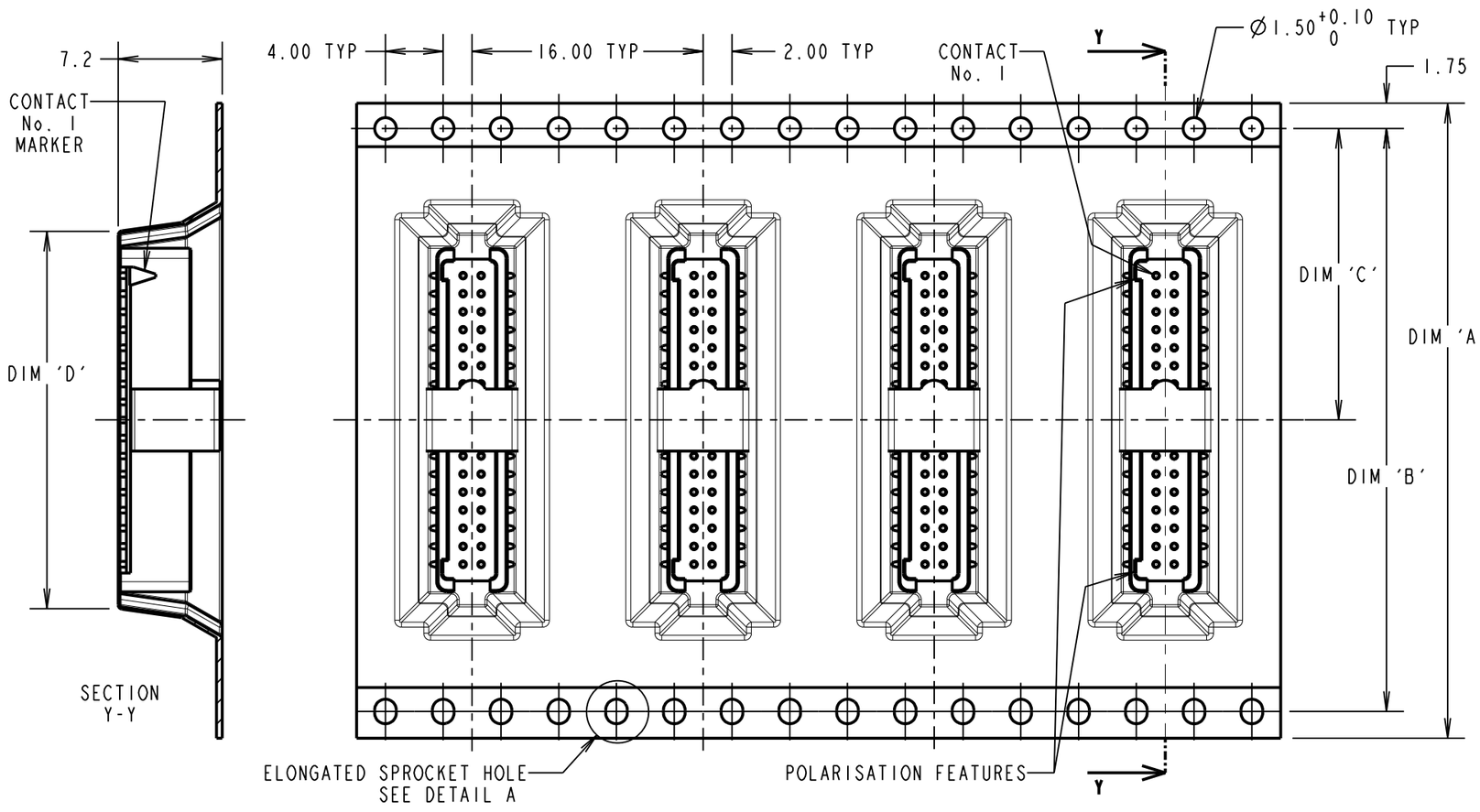
TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL

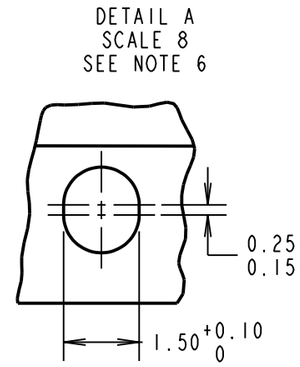
DRAWING NUMBER: G125-MSIXX05LOR

SHT 4 OF 5

Customer Information Sheet

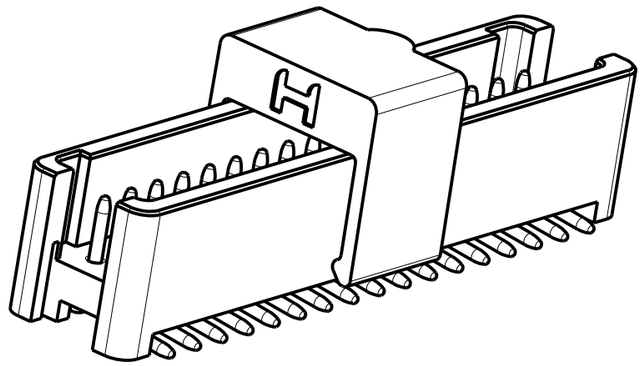
DRAWING No.: G125-MSIXX05LOR	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

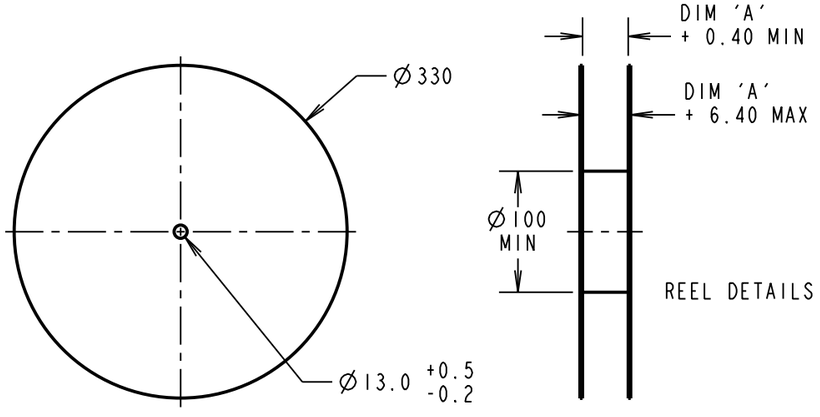




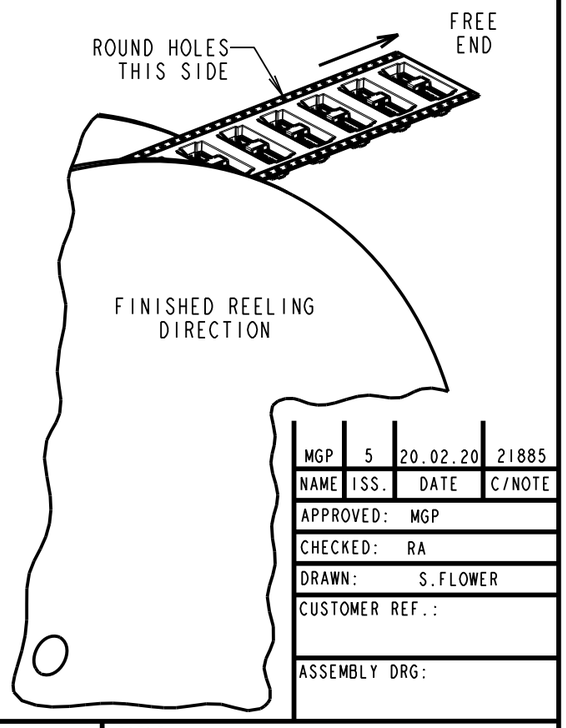
ORDER CODE: **G125-MSIXX05LOR**

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





PART No.	DIM 'A'	DIM 'B'	DIM 'C'	(DIM 'D')
G125-MSI0605LOR	24.0±0.3	NO ELONGATED HOLE	11.50	(8.6)
G125-MSI1005LOR				(11.1)
G125-MSI1205LOR	32.0±0.3	28.40	14.20	(12.4)
G125-MSI1605LOR				(14.9)
G125-MSI2005LOR	44.0±0.3	40.40	20.2±0.15	(17.4)
G125-MSI2605LOR				(21.1)
G125-MSI3405LOR				(26.1)
G125-MSI5005LOR	56.0±0.3	52.40	26.2±0.15	(36.1)



NOTES:
1. QUANTITY OF COMPONENTS PER REEL = 400.
2. FOR OTHER QUANTITIES SEE G125-MSIXX05LOP.
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. ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

MGP	5	20.02.20	21885
NAME	ISS.	DATE	C/NOTE

APPROVED: MGP
CHECKED: RA
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

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: mm²

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

DRAWING NUMBER: G125-MSIXX05LOR

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

HARWiN

www.harwin.com
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