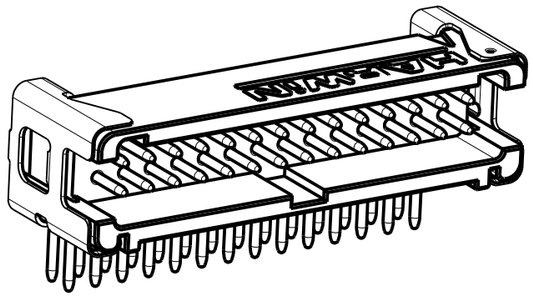
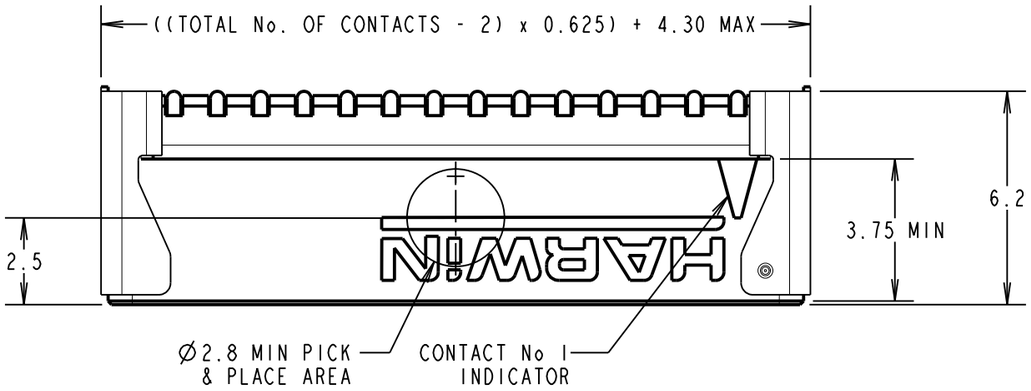
Customer Information Sheet

DRAWING No.: G125-MHXXX05L7R	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





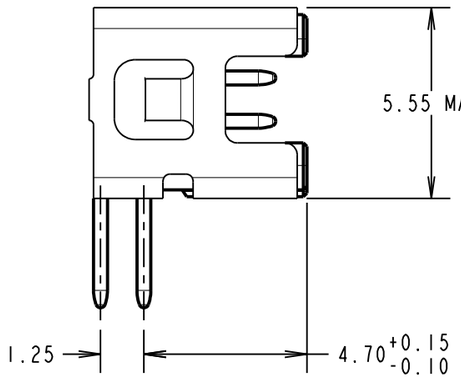
ORDER CODE:

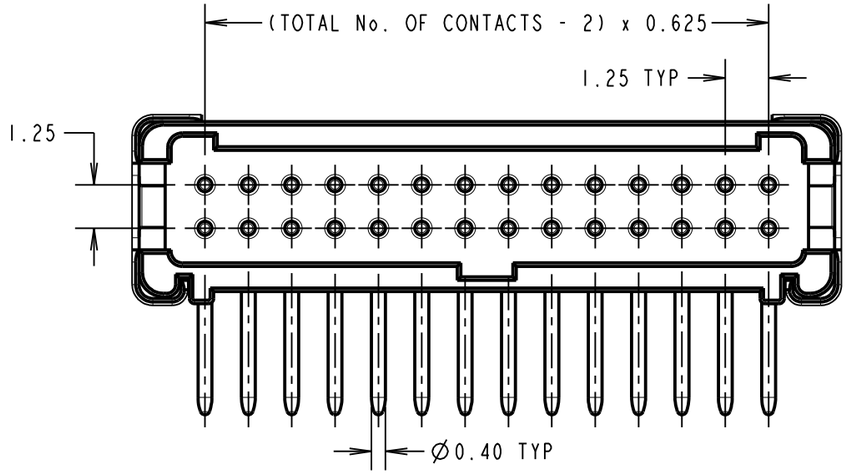
G125-MHXXX05L7R

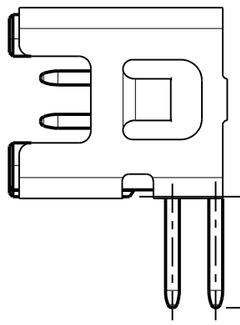
3.2mm PC-TAILS = H1
4.7mm PC-TAILS = H2

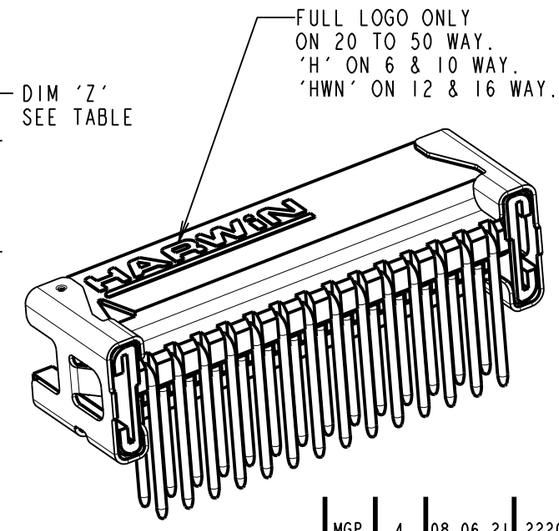
TOTAL No. OF CONTACTS
06, 10, 12, 16, 20, 26, 34, 50.

CONTACT STYLE	DIM 'Z'
H1	3.2±0.15
H2	4.7±0.15

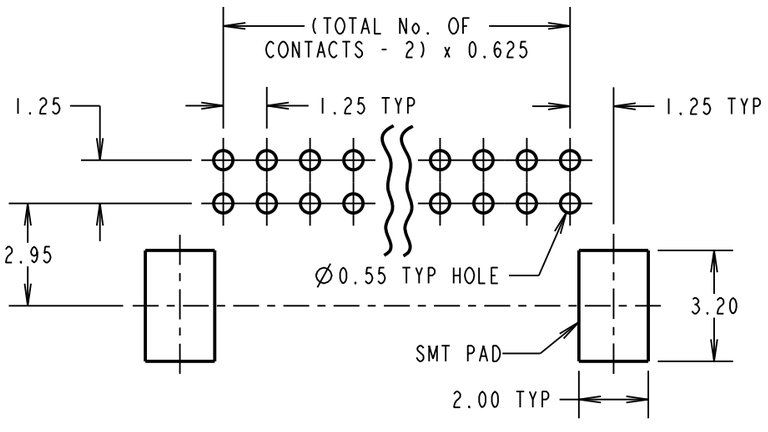








RECOMMENDED PCB LAYOUT
TOLERANCES = ±0.05mm



CONNECTOR DETAILS AND PCB LAYOUT ONLY.
SEE SHEET 6 FOR TAPE AND REEL DETAILS.

NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE). SEE G125-SERIES CONNECTORS SPECIFICATION SHEET FOR MATERIALS, FINISH AND SPECIFICATION SUMMARY.

NAME	ISS.	DATE	CN/CO
MGP	4	08.06.21	22201

APPROVED: MGP
CHECKED: MR
DRAWN: MARK G PLESTED
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 NOTE 1
FINISH: SEE NOTE 1
S/AREA: mm²

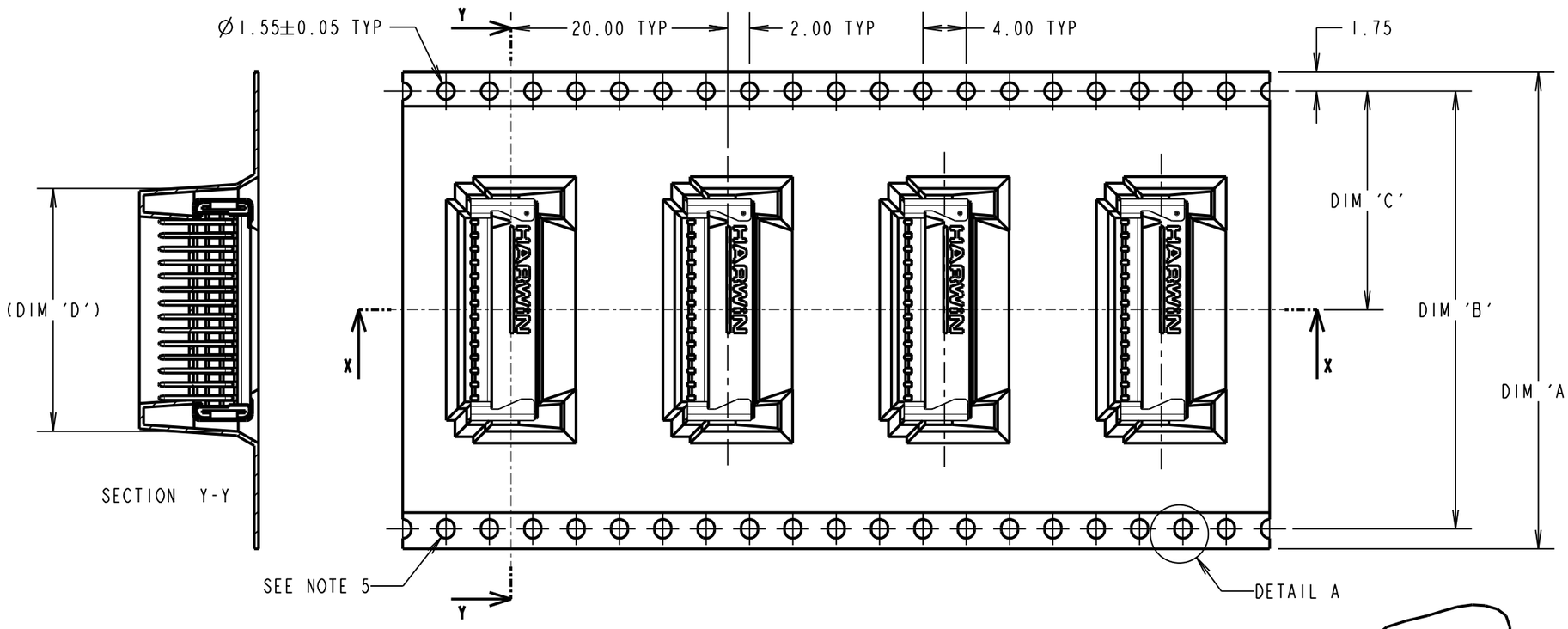
TITLE: G125 MALE HORIZONTAL PC TAIL SERIES IN TAPE & REEL

DRAWING NUMBER: G125-MHXXX05L7R

SHT 5 OF 6

Customer Information Sheet

DRAWING No.: G125-MHXXX05L7R	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

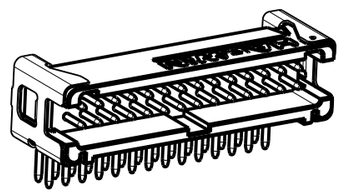


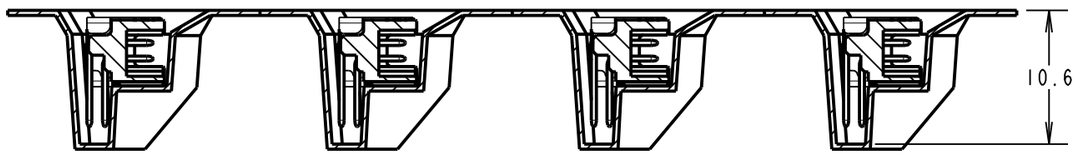
ORDER CODE:

G125-MHXXX05L7R

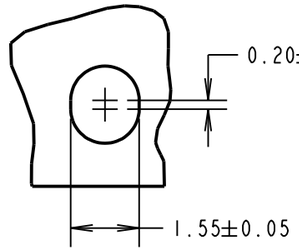
3.2mm PC-TAILS = H1
4.7mm PC-TAILS = H2

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

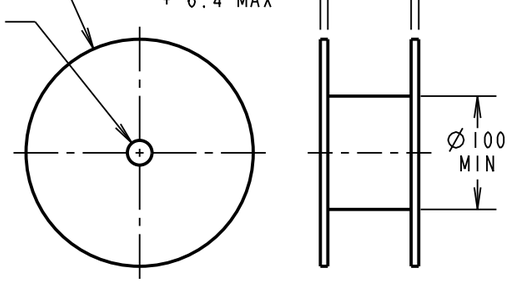




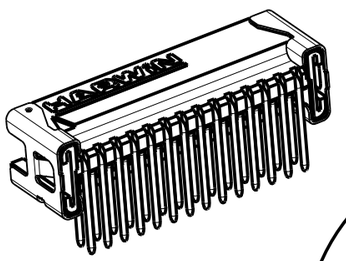
SECTION X-X

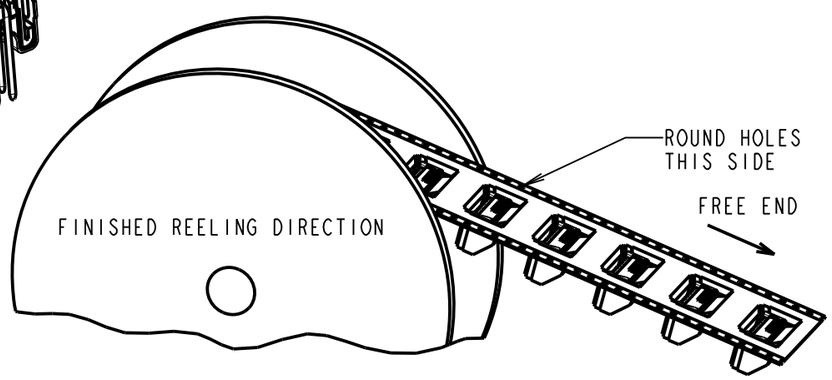


DETAIL A
SEE NOTE 5



REEL DETAILS





PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-MHX0605L7R	24.0 +0.3/-0.1	NO ELONGATED HOLE	11.50	8.5
G125-MHX1005L7R				11.0
G125-MHX1205L7R	32.0±0.3	28.40	14.20	12.2
G125-MHX1605L7R				14.7
G125-MHX2005L7R	44.0±0.3	40.40	20.2±0.15	17.2
G125-MHX2605L7R				21.0
G125-MHX3405L7R				26.0
G125-MHX5005L7R	56.0±0.3	52.40	26.2±0.15	36.0

NOTES:
1. QUANTITY OF COMPONENTS PER REEL = 250.
2. FOR OTHER QUANTITIES SEE G125-MHXXX05L7P.
3. THIS PRODUCT IS TAPED AND REELED IN GENERAL ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
4. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
5. ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.
6. SEE SHEET 5 FOR CONNECTOR DETAILS.

MGP	4	08.06.21	22201
NAME	ISS.	DATE	CN/CO

APPROVED: MGP
CHECKED: MR
DRAWN: MARK G PLESTED
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 SHEET 5
FINISH: SEE SHEET 5
S/AREA: mm²

TITLE: G125 MALE HORIZONTAL PC TAIL SERIES IN TAPE & REEL

DRAWING NUMBER: G125-MHXXX05L7R

SHT 6 OF 6

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