

Customer Information Sheet

DRAWING No.: G125-MHXXX05L6R

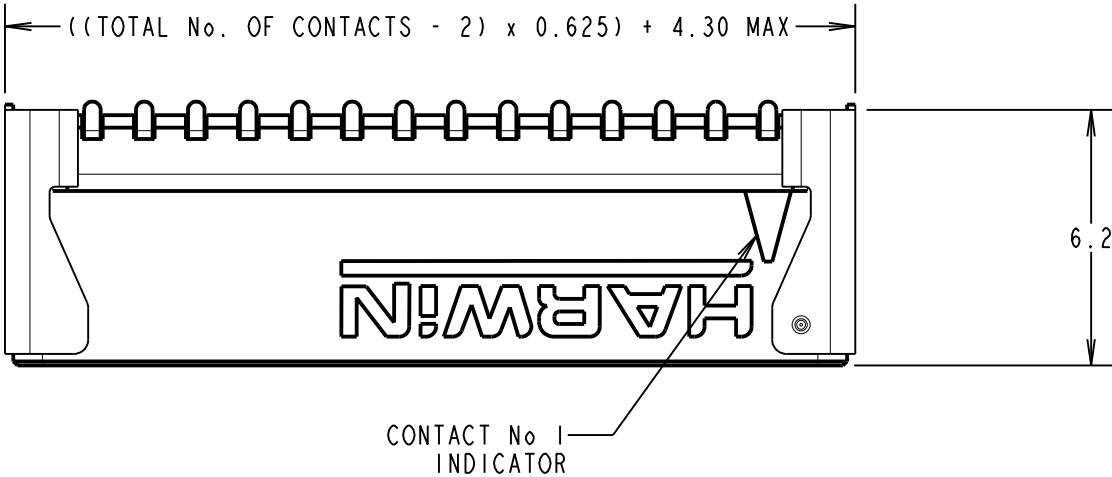
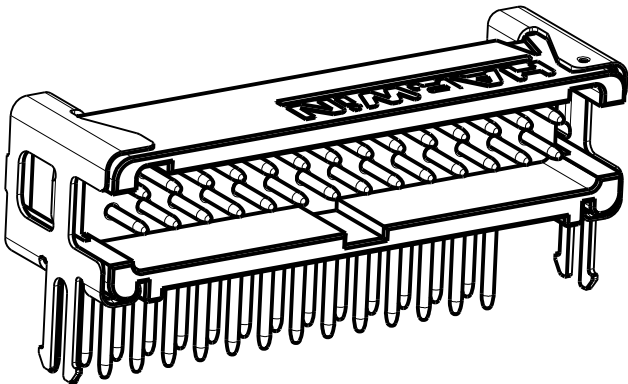
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



ORDER CODE:

G125-MHXXX05L6R

3.3mm PC-TAILS = H1

4.8mm PC-TAILS = H2

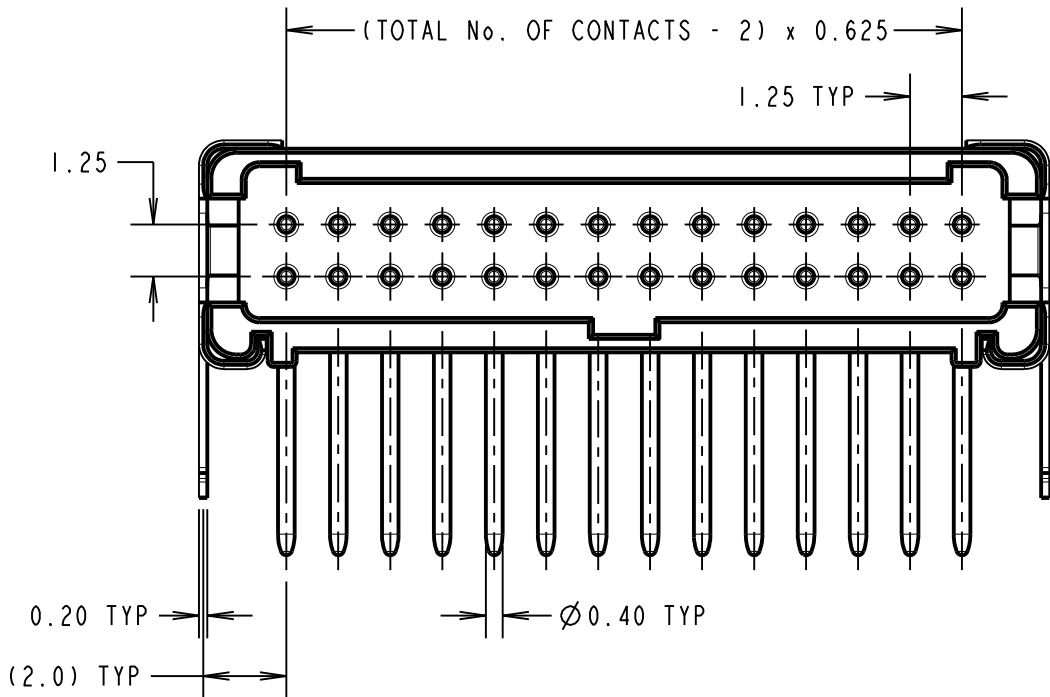
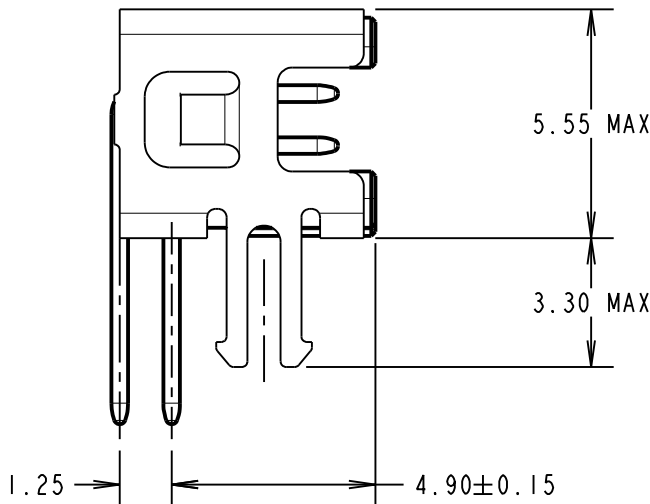
TOTAL No. OF CONTACTS

06, 10, 12, 16, 20,

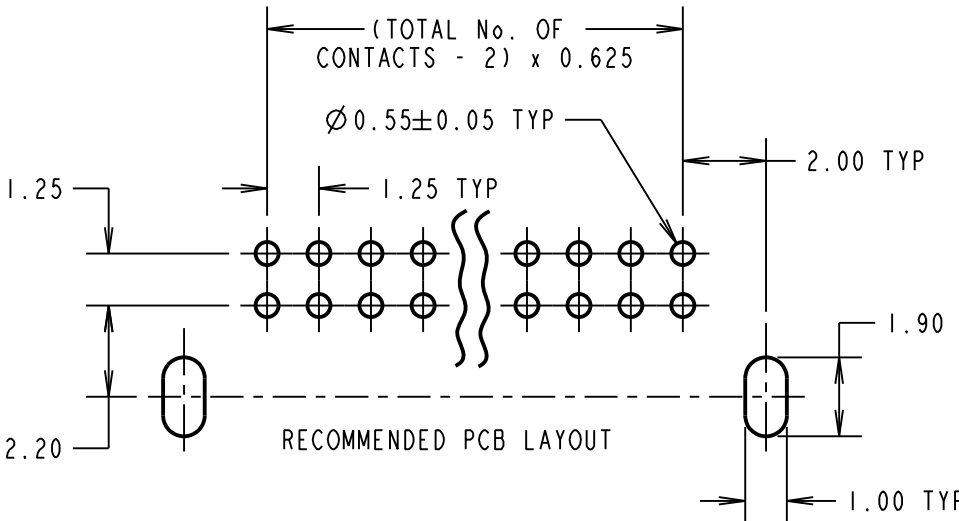
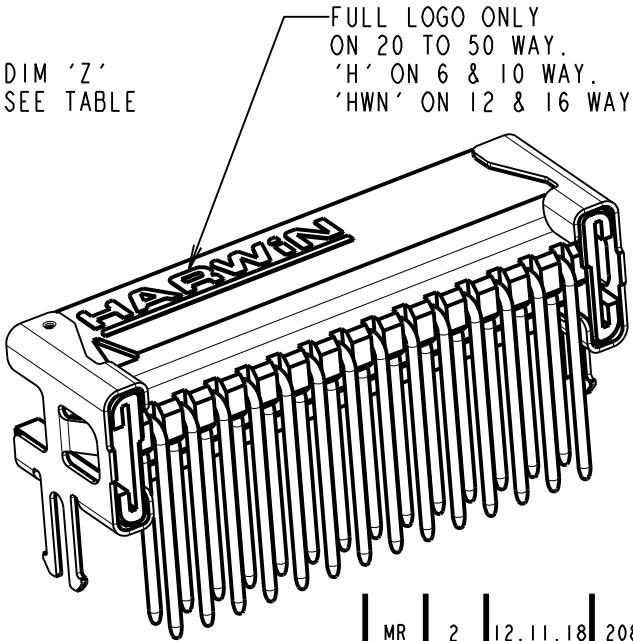
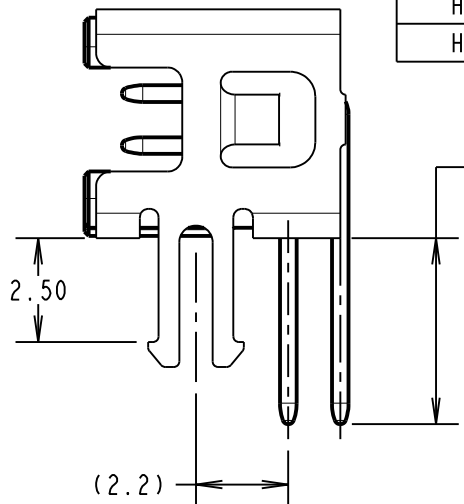
26, 34, 50.

LATCHES:

2.5mm PCB HOLD DOWN = L6



CONTACT STYLE	DIM 'Z'
H1	3.3±0.15
H2	4.8±0.15



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.

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www.harwin.com

technical@harwin.com

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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 NOTE 1
FINISH: SEE NOTE 1
S/AREA: mm²

TITLE:
G125 MALE HORIZONTAL PC TAIL
SERIES IN TAPE & REEL
DRAWING NUMBER:
G125-MHXXX05L6R
SHT 5 OF 6

MR	2	12.11.18	20862
NAME	ISS.	DATE	C/NOTE
APPROVED: M.RUDKIN			
CHECKED: M.PLESTED			
DRAWN: MARK G PLESTED			
CUSTOMER REF.:			
ASSEMBLY DRG:			

Customer Information Sheet

DRAWING No.: G125-MHXXX05L6R

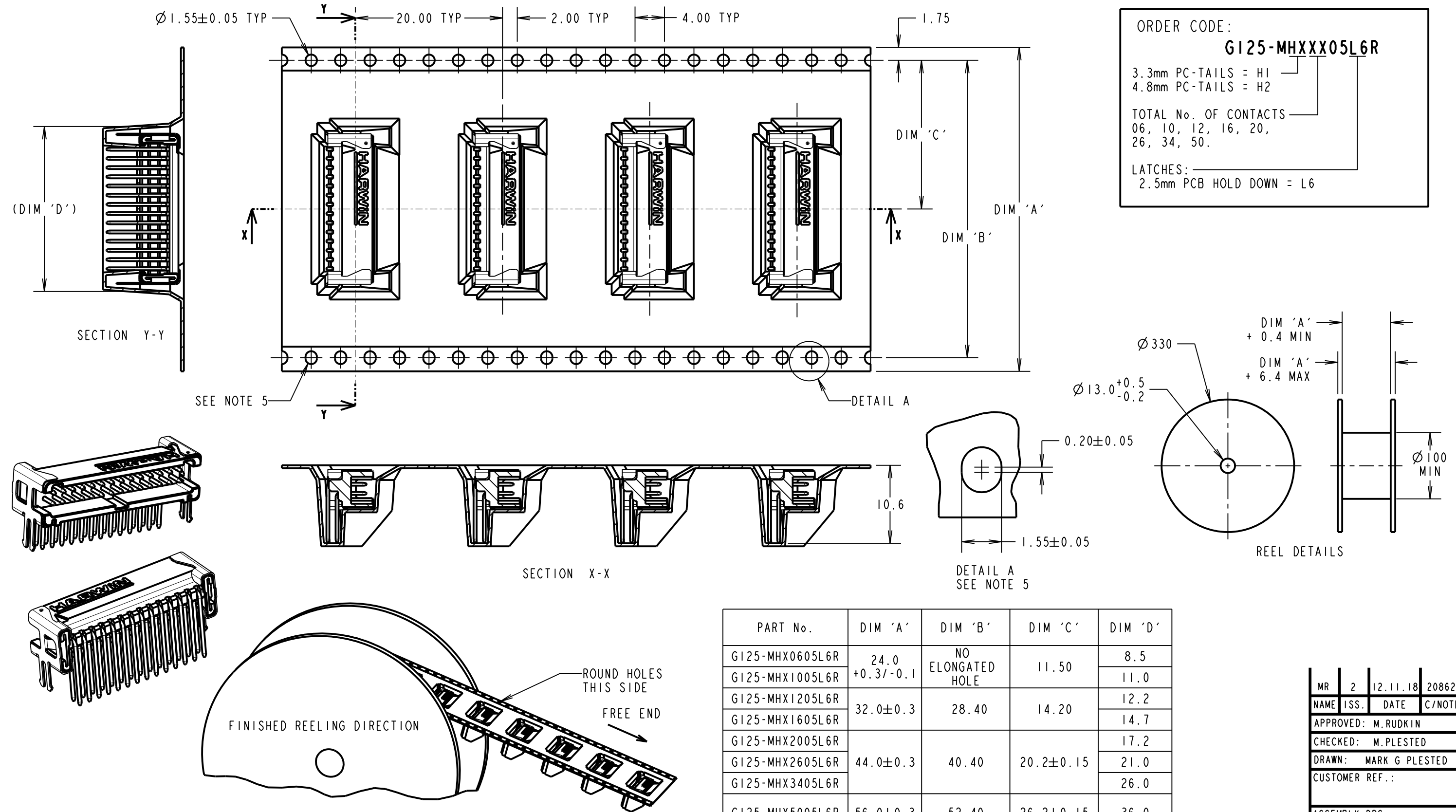
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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



- NOTES:
1. QUANTITY OF COMPONENTS PER REEL = 250.
 2. FOR OTHER QUANTITIES SEE G125-MHXXX05L6P.
 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.

PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-MHX0605L6R	24.0 +0.3/-0.1	NO ELONGATED HOLE	11.50	8.5
G125-MHX1005L6R				11.0
G125-MHX1205L6R	32.0±0.3	28.40	14.20	12.2
G125-MHX1605L6R				14.7
G125-MHX2005L6R	44.0±0.3	40.40	20.2±0.15	17.2
G125-MHX2605L6R				21.0
G125-MHX3405L6R	56.0±0.3	52.40	26.2±0.15	26.0
G125-MHX5005L6R				36.0

MR	2	12.11.18	20862
NAME	ISS.	DATE	C/NOTE
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CUSTOMER REF.:			
ASSEMBLY DRG:			

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TOLERANCES
X. = ± 1 mm
X.X = ± 0.50 mm
X.XX = ± 0.10 mm
X.XXX = ± 0.01 mm
ANGLES = $\pm 5^\circ$
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-MHXXX05L6R

SHT

6 OF 6

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK

(C)

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

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 CONTACTS:
0.2-0.3 μ GOLD OVER NICKEL
LATCHES:
3.0 μ 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-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s²
(100G) FOR 6ms IN Z AXIS, 490 mm/s² (50G) FOR 11ms IN X & Y AXIS.

* EIA-364-01A : 2000: ACCELERATION: 490 mm/s² (50G)
* BUMP SEVERITY: 390 mm/s² (40G), 4000 $\pm$ 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 = 20m Ω MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25m Ω MAX

WORKING VOLTAGE:

EIA-364-20C : 2004: SEA LEVEL (1006mbar) = 450V DC/AC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar) = 250V DC/AC PEAK

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

INSULATION RESISTANCE:

EIA-364-21C : 2000: INSULATION RESISTANCE (INITIAL)
= 10 G Ω MIN AT 500V DC
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING)
= >1 G Ω MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5MM, 198 mm/s² (20G). DURATION 2Hr

PATENT PENDING
UK 1205109.0



MGP	4	22.06.17	20668
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SB			
DRAWN:		S.FLOWER	
CUSTOMER REF.:			
ASSEMBLY DRG:			

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TOLERANCES

X = $\pm$ 1mm
X.X = $\pm$ 0.50mm
X.XX = $\pm$ 0.10mm
X.XXX = $\pm$ 0.01mm
ANGLES = $\pm$ 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-MH20605L6R](#) [G125-MH21005L6R](#) [G125-MH21205L6R](#) [G125-MH21605L6R](#) [G125-MH22005L6R](#) [G125-MH22605L6R](#) [G125-MH23405L6R](#) [G125-MH25005L6R](#)