

# Customer Information Sheet

DRAWING No.: G125-MSIXX05LOX

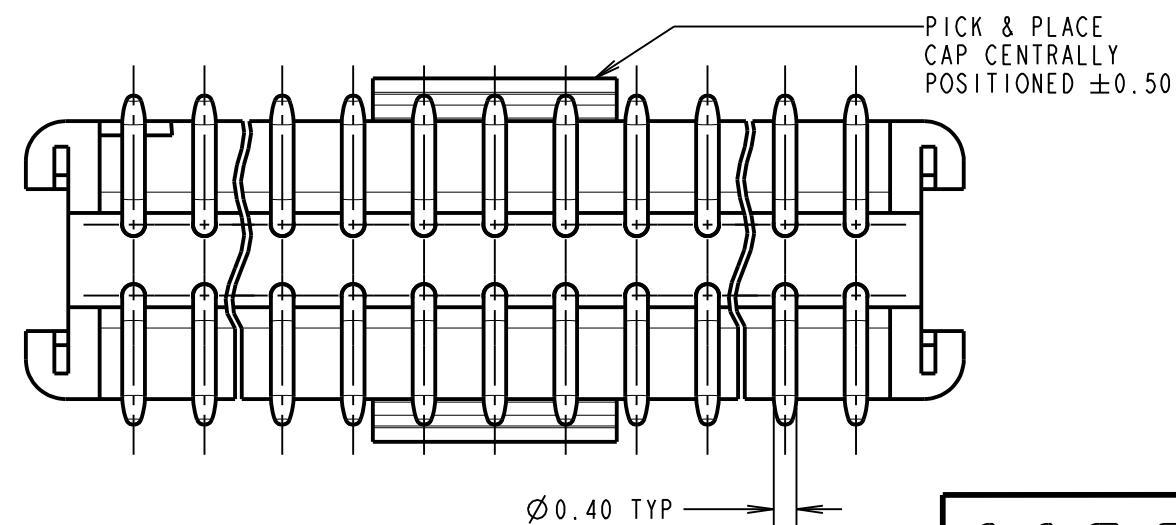
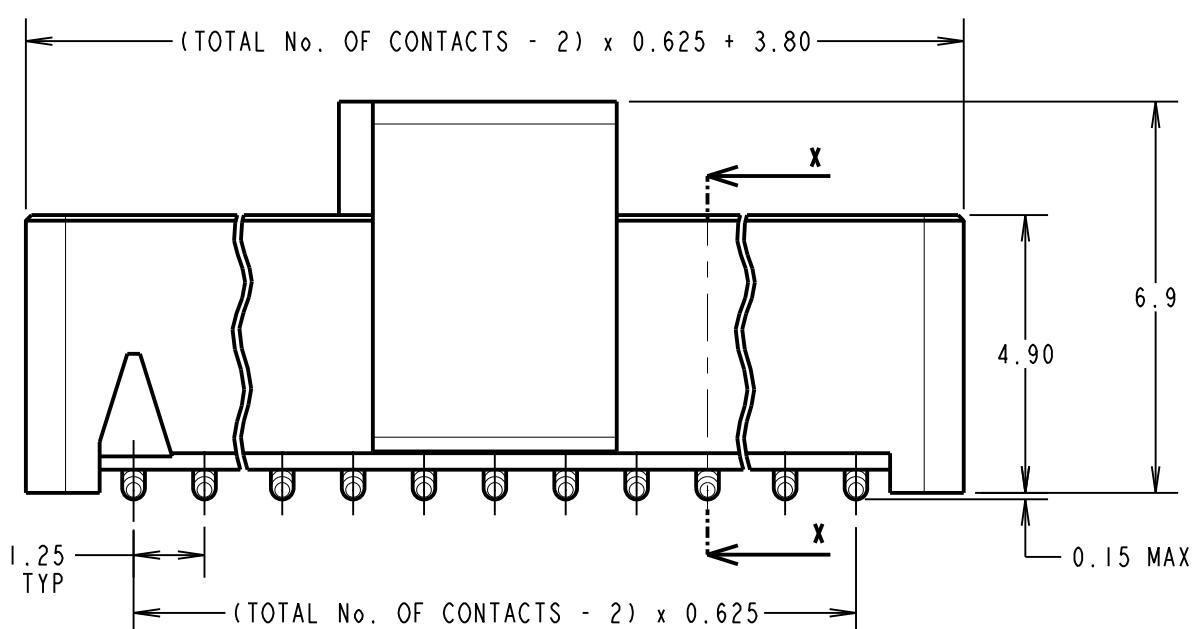
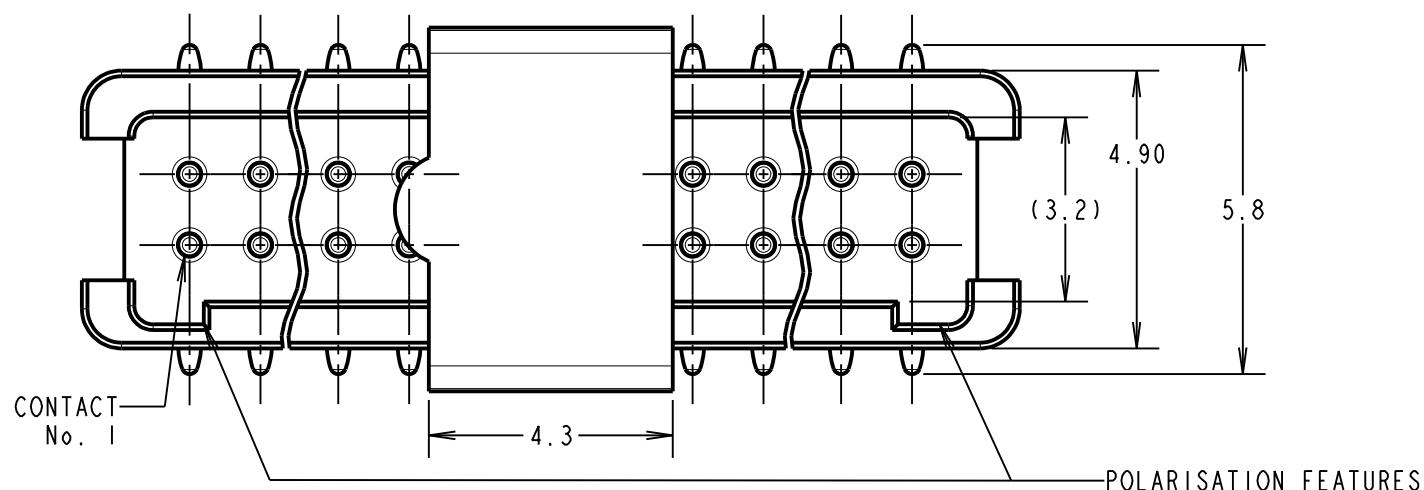
IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



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technical@harwin.com

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. SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.

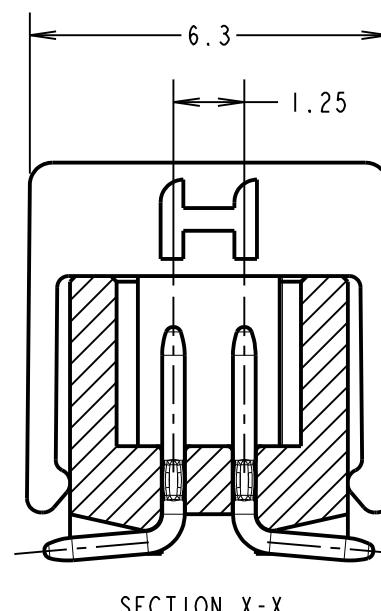
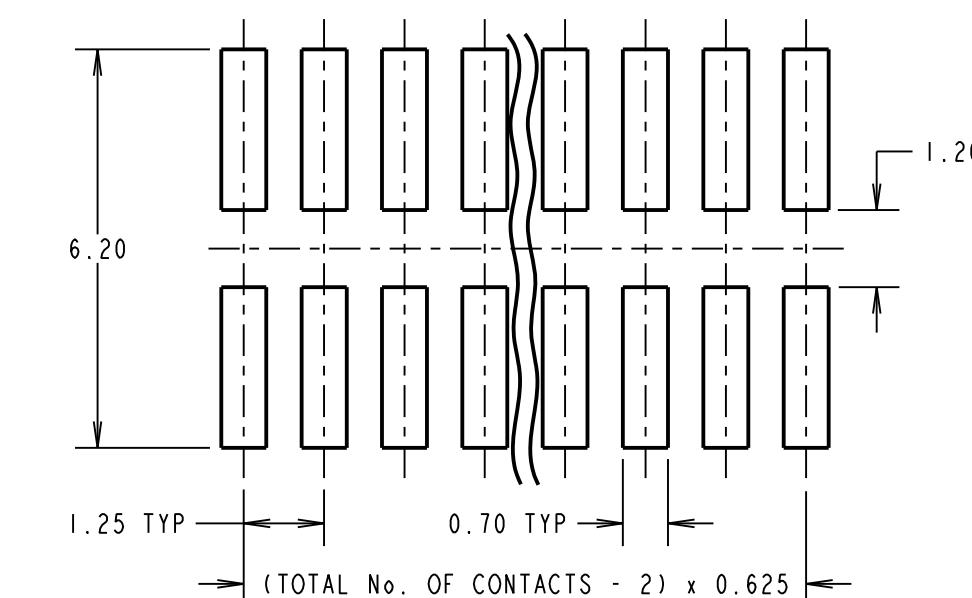
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TOLERANCES  
X. = ±1mm  
X.X = ±0.50mm  
X.XX = ±0.10mm  
X.XXX = ±0.01mm  
ANGLES = ±5°  
UNLESS STATED

MATERIAL:  
SEE SPECIFICATION SHEET  
FINISH: SEE SPECIFICATION SHEET  
S/AREA: mm<sup>2</sup>

TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL  
DRAWING NUMBER: G125-MSIXX05LOX  
SHT 2 OF 3

RECOMMENDED PCB LAYOUT



ORDER CODE: **G125-MSIXX05LOX**

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

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

SB	3	21.10.15	13019
NAME	ISS.	DATE	C/NOTE
APPROVED:	S. BENNETT		
CHECKED:	M. PLESTED		
DRAWN:	S. FLOWER		
CUSTOMER REF.:			
ASSEMBLY DRG.:			

# Customer Information Sheet

DRAWING No.: G125-MSIXX05L0X

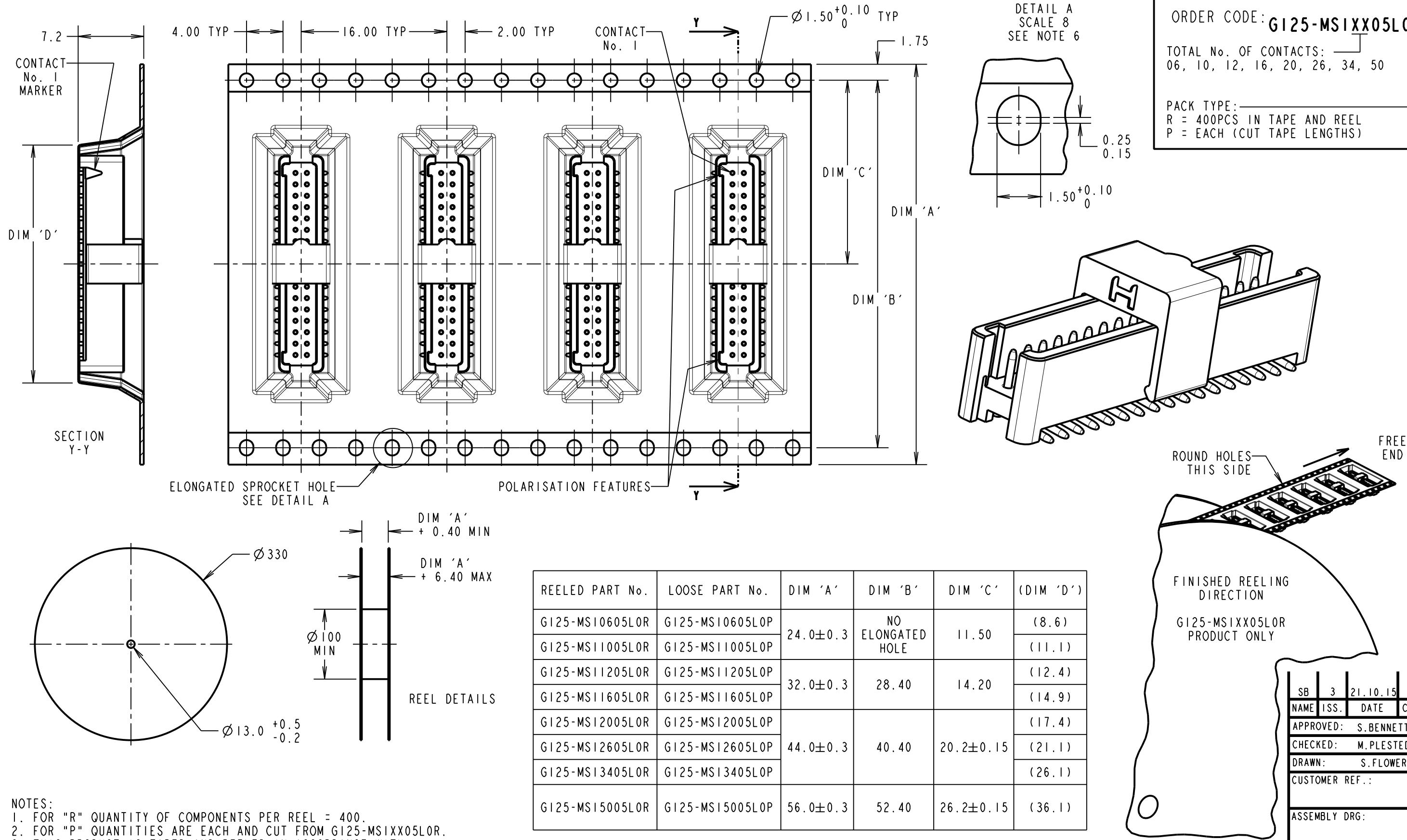
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(C)

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THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



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TOLERANCES  
X. =  $\pm 1\text{mm}$   
X.X =  $\pm 0.50\text{mm}$   
X.XX =  $\pm 0.10\text{mm}$   
X.XXX =  $\pm 0.01\text{mm}$   
ANGLES =  $\pm 5^\circ$   
UNLESS STATED

MATERIAL:  
SEE SPECIFICATION SHEET  
FINISH: SEE SPECIFICATION SHEET  
S/AREA: mm<sup>2</sup>

TITLE: 1.25mm GECKO MALE VERTICAL SMT CONNECTORS IN TAPE & REEL  
DRAWING NUMBER: G125-MSIXX05L0X  
SHT 3 OF 3

# 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 $\mu$  GOLD OVER NICKEL  
LATCHES:  
3.0 $\mu$  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/s<sup>2</sup> (20G). DURATION 2Hr

\* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s<sup>2</sup>  
(100G) FOR 6ms IN Z AXIS, 490 mm/s<sup>2</sup> (50G) FOR 11ms IN X & Y AXIS.

\* EIA-364-01A : 2000: ACCELERATION: 490 mm/s<sup>2</sup> (50G)  
\* BUMP SEVERITY: 390 mm/s<sup>2</sup> (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 $\Omega$  MAX  
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25m $\Omega$  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 $\Omega$  MIN AT 500V DC  
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING)  
= >1 G $\Omega$  MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

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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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: mm<sup>2</sup>

TITLE: G125 SERIES COMPONENT SPECIFICATION  
DRAWING NUMBER: G125-SERIES CONNECTORS  
SHT 1 OF 1