

# Customer Information Sheet

DRAWING No.: G125-MS1XX05MIP

IF IN DOUBT - ASK

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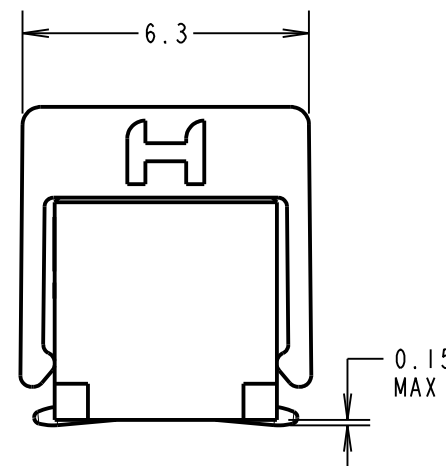
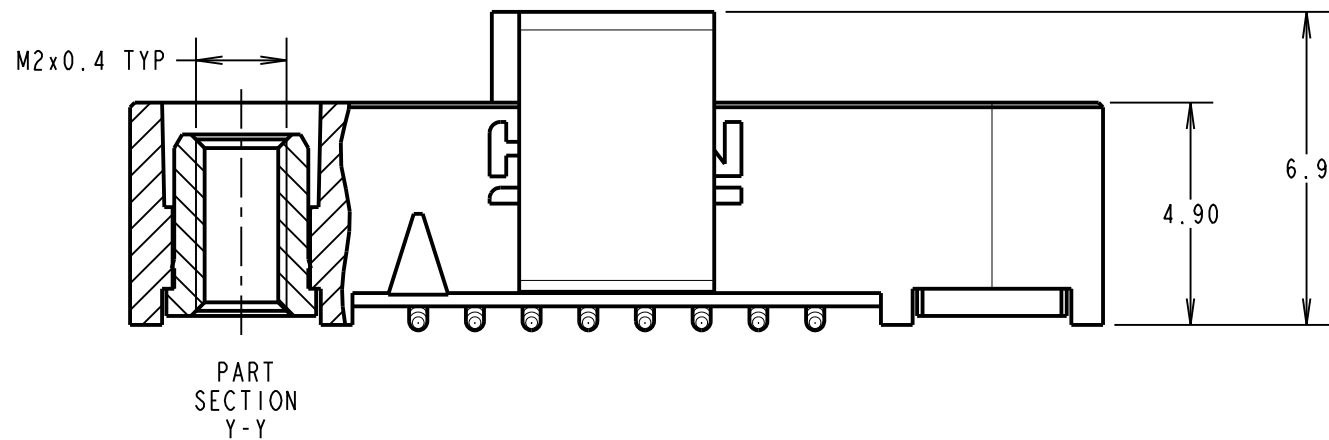
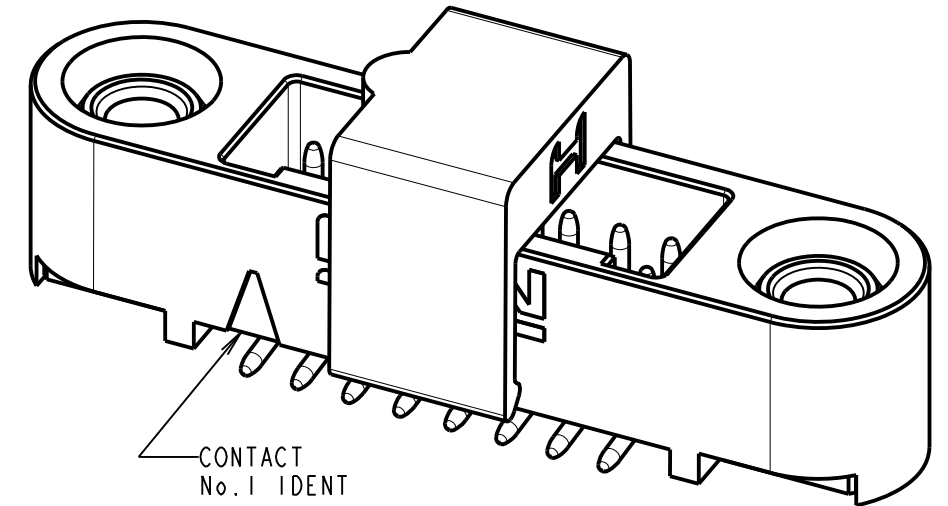
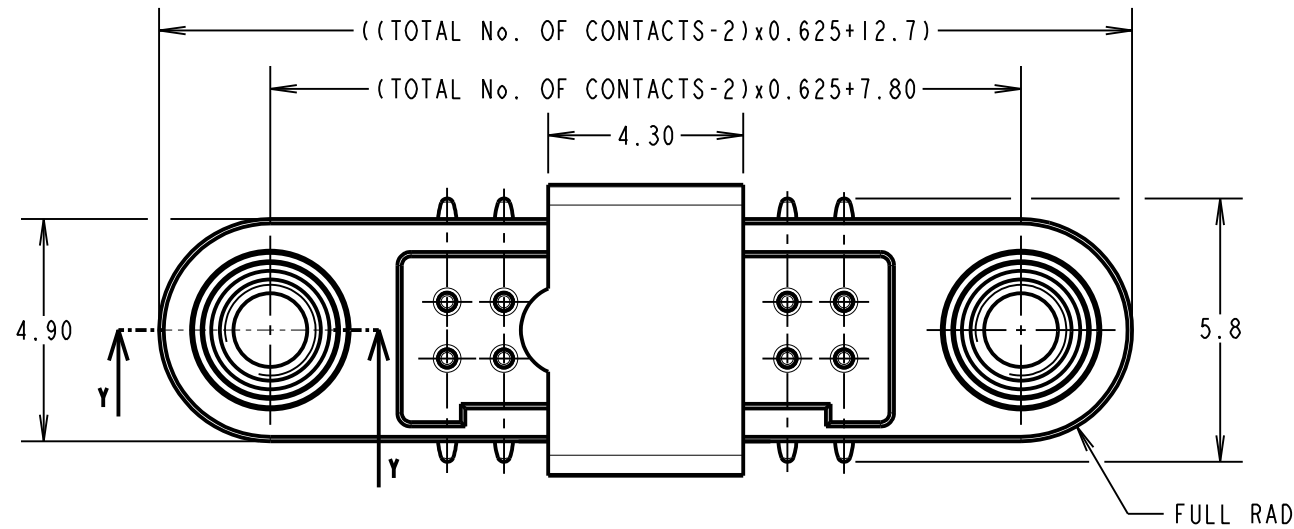
NOT TO SCALE

THIRD ANGLE PROJECTION

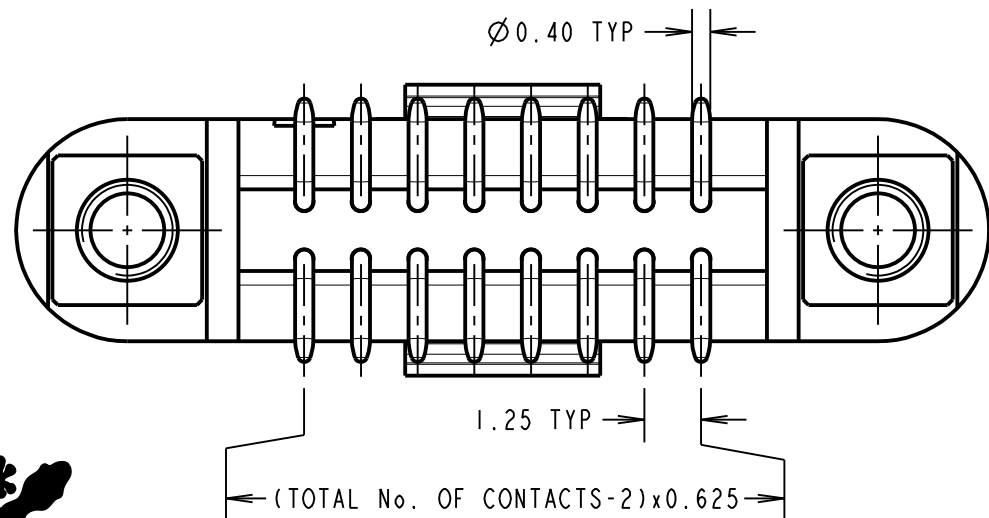
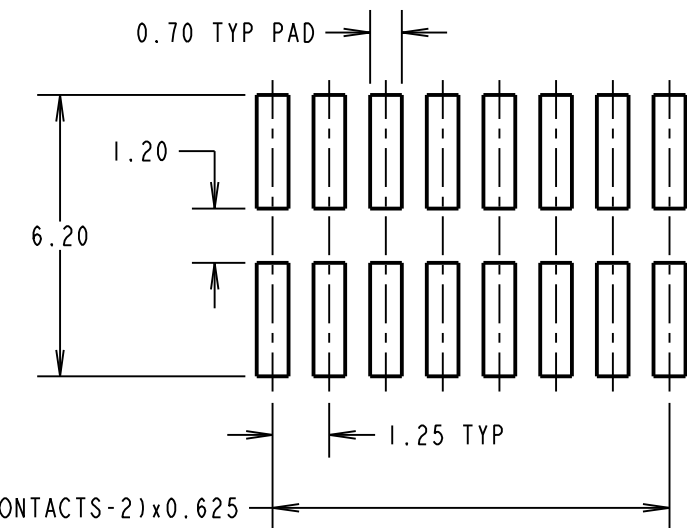
ALL DIMENSIONS IN mm

ORDER CODE: **G125-MS1XX05MIP**

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



RECOMMENDED PCB LAYOUT



CONNECTOR AND PCB LAYOUT DETAILS ONLY.  
SEE SHEET 4 FOR TAPE STRIP DETAILS.

NOTES:

- FOR MATERIALS, FINISH AND SPECIFICATIONS SEE GECKO SERIES SPECIFICATION SUMMARY SHEET OR COMPONENT SPECIFICATION C125XX (LATEST ISSUE) FOR FULL SPECIFICATION.
- CO-PLANARITY OF SMT TAILS = 0.10mm MAX.
- DRAWING SHOWS CONNECTOR WITH 16 CONTACTS.

MR	1	07.11.18	21591
NAME	ISS.	DATE	C/NOTE
APPROVED: M.RUDKIN			
CHECKED: S.BENNETT			
DRAWN: MARK G PLESTED			
CUSTOMER REF.:			
ASSEMBLY DRG:			



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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 ABOVE  
FINISH: SEE ABOVE  
S/AREA: mm<sup>2</sup>

TITLE: GECKO SL MALE VERTICAL SMT CONNECTOR IN TAPE  
DRAWING NUMBER: **G125-MS1XX05MIP**  
SHT 3 OF 4

# Customer Information Sheet

DRAWING No.: G125-MS1XX05MIP

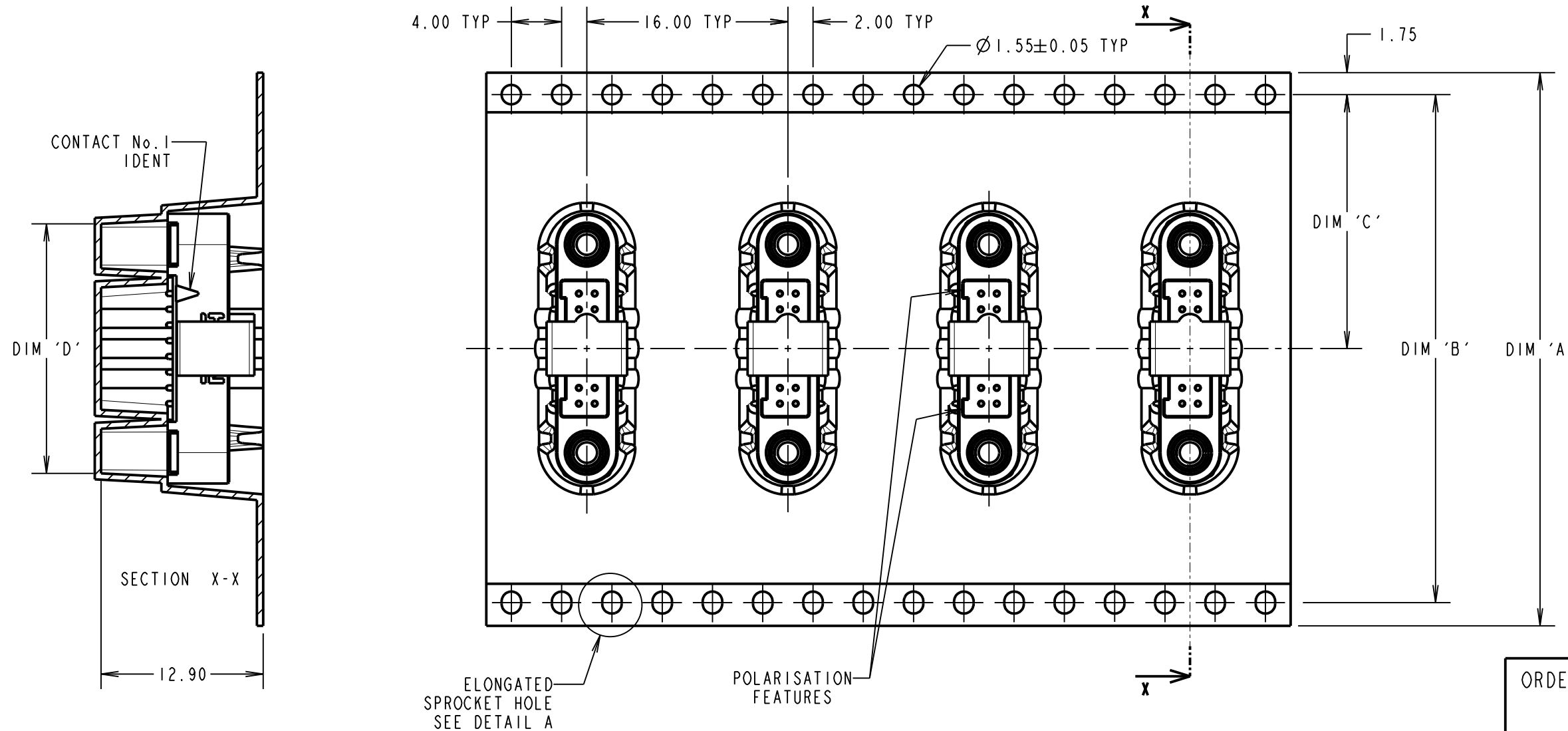
IF IN DOUBT - ASK

(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

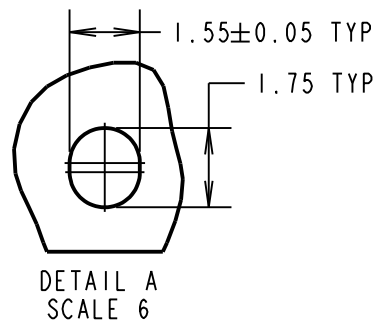


ORDER CODE: **G125-MS1XX05MIP**  
 TOTAL No. OF CONTACTS: 06, 10, 12, 16, 20, 26, 34 & 50.

**TAPE STRIP DETAILS ONLY. SEE SHEET 3 FOR CONNECTOR AND PCB LAYOUT DETAILS.**

**NOTES CONT.:**

4. COMPONENTS ARE ORIENTED IN TAPE POCKETS AS SHOWN.
5. COMPONENTS ARE SUPPLIED IN STRIPS OF TAPE. SUPPLIED QUANTITY MAY CONSIST OF MORE THAN ONE STRIP. STRIP LENGTH MAY VARY.
6. LARGE QTY'S MAY BE SHIPPED ON A REEL AND MAY NOT HAVE A LEADER.
7. FOR PARTS ON REEL SUITABLE FOR AUTOMATIC MACHINE PLACEMENT PLEASE ORDER G125-MS1XX05MIR.



PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-MS10605MIP				13.60
G125-MS11005MIP	32.0±0.3	28.40	14.20	16.10
G125-MS11205MIP				17.35
G125-MS11605MIP				19.85
G125-MS12005MIP	44.0±0.3	40.40	20.20±0.15	22.20±0.15
G125-MS12605MIP				26.00±0.15
G125-MS13405MIP	56.0±0.3	52.40	26.20±0.15	30.90±0.15
G125-MS15005MIP				41.00±0.15

MR	I	07.11.18	21591
NAME	ISS.	DATE	C/NOTE
APPROVED: M.RUDKIN			
CHECKED: S.BENNETT			
DRAWN: MARK G PLESTED			
CUSTOMER REF.:			
ASSEMBLY DRG:			

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 ANGLES = ±5°  
 UNLESS STATED

**MATERIAL:**  
 SEE SHEET 3  
**FINISH:** SEE SHEET 3  
**S/AREA:** mm<sup>2</sup>

**TITLE:**  
 GECKO SL MALE VERTICAL SMT CONNECTOR IN TAPE  
**DRAWING NUMBER:**  
**G125-MS1XX05MIP**  
 SHT 4 OF 4

# Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION

IF IN DOUBT - ASK

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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/s<sup>2</sup> (20G). DURATION 2Hr  
\* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:  
10Hz TO 2000Hz, 1.5mm, 198mm/s<sup>2</sup> (20G). DURATION 2Hr  
\* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981mm/s<sup>2</sup>  
(100G) FOR 6ms IN Z AXIS, 490mm/s<sup>2</sup> (50G) FOR 11m/s IN X & Y AXIS.  
\* EIA-364-01A : 2000: ACCELERATION: 490mm/s<sup>2</sup> (50G)  
\* BUMP SEVERITY: 390mm/s<sup>2</sup> (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:**

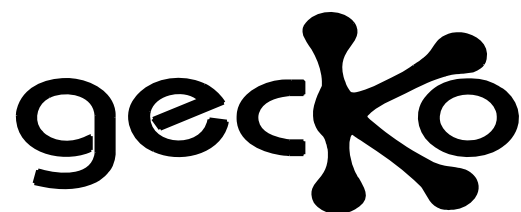
AT SEA LEVEL (1006mbar) = 450V DC/AC PEAK  
AT ALTITUDE (44mbar, 21,336m/70,000ft) = 250V DC/AC PEAK

**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:			



PATENTED TECHNOLOGY

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**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

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