



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Customer Information Sheet

DRAWING No.: G125-1010005, G125-1020005

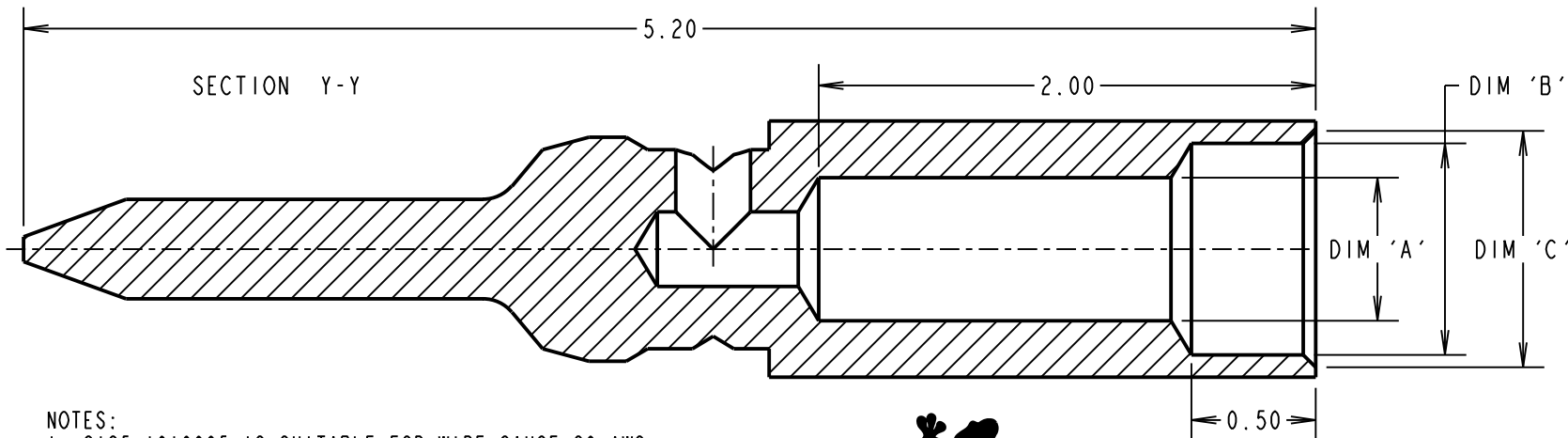
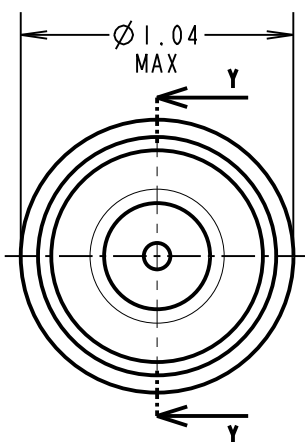
IF IN DOUBT - ASK

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NOT TO SCALE

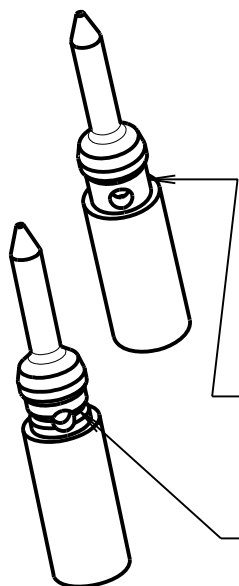
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



**NOTES:**

- G125-1010005 IS SUITABLE FOR WIRE GAUGE 26 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing 0.80\text{mm}$ , STRIP WIRE BY 1.50-1.75mm FOR CRIMPING.
- G125-1020005 IS SUITABLE FOR WIRE GAUGE 28-32 AWG. MAXIMUM INSULATION DIAMETER  $\varnothing 0.72\text{mm}$ , STRIP WIRE BY 1.50-1.75mm FOR CRIMPING.
- RECOMMENDED CRIMP TOOL = Z125-900 & POSITIONER = Z125-901 CONTACT INSERTION / WITHDRAWAL KIT = Z125-902.
- FOR INSTRUCTIONS ON HAND CRIMP TOOL Z125-900, SEE INSTRUCTION SHEET IS-37.
- RECOMMENDED WIRE TYPES INCLUDE: BS 3G 210 Type A, MIL-W-16878/6 Type ET AND NEMA HP3 Type ET.
- PACKING: 100 PER BOX.



G125-1010005  
NO IDENT

G125-1020005  
IDENT



PATENT PENDING - UK 1205109.0

PART No.	MATERIAL	FINISH	DIM 'A'	DIM 'B'	DIM 'C'	IDENT GROOVE
G125-1010005	BRASS	0.20-0.30 $\mu$ GOLD OVER	$\varnothing 0.60$ $\varnothing 0.55$	$\varnothing 0.88$ $\varnothing 0.85$	$\varnothing 0.95$ $\varnothing 0.92$	NO
G125-1020005		1.5-2.5 $\mu$ NICKEL	$\varnothing 0.48$ $\varnothing 0.44$	$\varnothing 0.80$ $\varnothing 0.77$	$\varnothing 0.87$ $\varnothing 0.84$	YES

SF	6	05.08.13	12172
NAME	ISS.	DATE	C/NOTE
APPROVED:		S.FLOWER	
CHECKED:		S.BENNETT	
DRAWN:		S.FLOWER	
CUSTOMER REF.:			
ASSEMBLY DRG:			

## HARWIN

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**TOLERANCES**  
X. =  $\pm 1\text{mm}$   
X.X =  $\pm 0.25\text{mm}$   
X.XX =  $\pm 0.10\text{mm}$   
X.XXX =  $\pm 0.01\text{mm}$   
**ANGLES** =  $\pm 5^\circ$   
**UNLESS STATED**

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

**TITLE:**  
G125 SERIES MALE CRIMP SIGNAL CONTACTS  
**DRAWING NUMBER:**  
G125-1010005, G125-1020005

SHT  
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OF 3

# 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:**

- \* EIA-364-01A : 2000: ACCELERATION: 490 mm/s<sup>2</sup> (50G)
- \* BUMP SEVERITY: 390 mm/s<sup>2</sup> (40G), 4000± 10 BUMPS
- \* TESTED WITH LATCHED CONNECTORS

**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

**LATCHES:**

COPPER NICKEL TIN ALLOY

**BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):**

STYCAST 2651 MM BACK POTTING WITH CATALYST 9

**FINISH:**

ALL CONTACTS:  
0.2-0.3µ GOLD OVER NICKEL  
LATCHES:  
3.0µ 100% TIN OVER NICKEL

**MECHANICAL:**

DURABILITY = 1000 OPERATIONS  
INSERTION FORCE = 2.8N MAX  
WITHDRAWAL FORCE = 0.2N MIN

**ENVIRONMENTAL:**

CLASSIFICATION: 65/150/96 HOURS AT 95% 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 11m/s IN X&Y AXIS.

**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 = 20mΩ MAX  
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX

**WORKING VOLTAGE:**

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

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

**INSULATION RESISTANCE:**

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

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).



PATENT PENDING - UK 1205109.0

SF	11.01.13	11910
NAME	DATE	C/NOTE
APPROVED:	S.FLOWER	
CHECKED:	S.BENNETT	
DRAWN:	S.FLOWER	

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**TOLERANCES**  
X = ±1mm  
X.X = ±0.25mm  
X.XX = ±0.10mm  
X.XXX = ±0.01mm  
ANGLES = ±5°  
UNLESS STATED

**MATERIAL:**

SEE ABOVE

**FINISH:**

SEE ABOVE

**TITLE:**

G125 SERIES COMPONENT SPECIFICATION

**DRAWING NUMBER:**

G125-SERIES CONNECTORS

SHT  
3  
OF  
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