

Customer Information Sheet

DRAWING No.: G125-F1XXXXX-XXX-XXX

IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

ORDER CODE:

G125-F1XXXXX-XXX-XXX

CONNECTOR 1 PART No.:

MSI = G125-MS1XX05L3P

FSI = G125-FS1XX05L0P

TOTAL No. OF CONTACTS:

06, 10, 12, 16, 20, 26, 34, 50.

CONNECTOR ASSEMBLIES AVAILABLE IN MALE-TO-MALE, FEMALE-TO-FEMALE,  
AND MALE-TO-FEMALE CONFIGURATIONS.

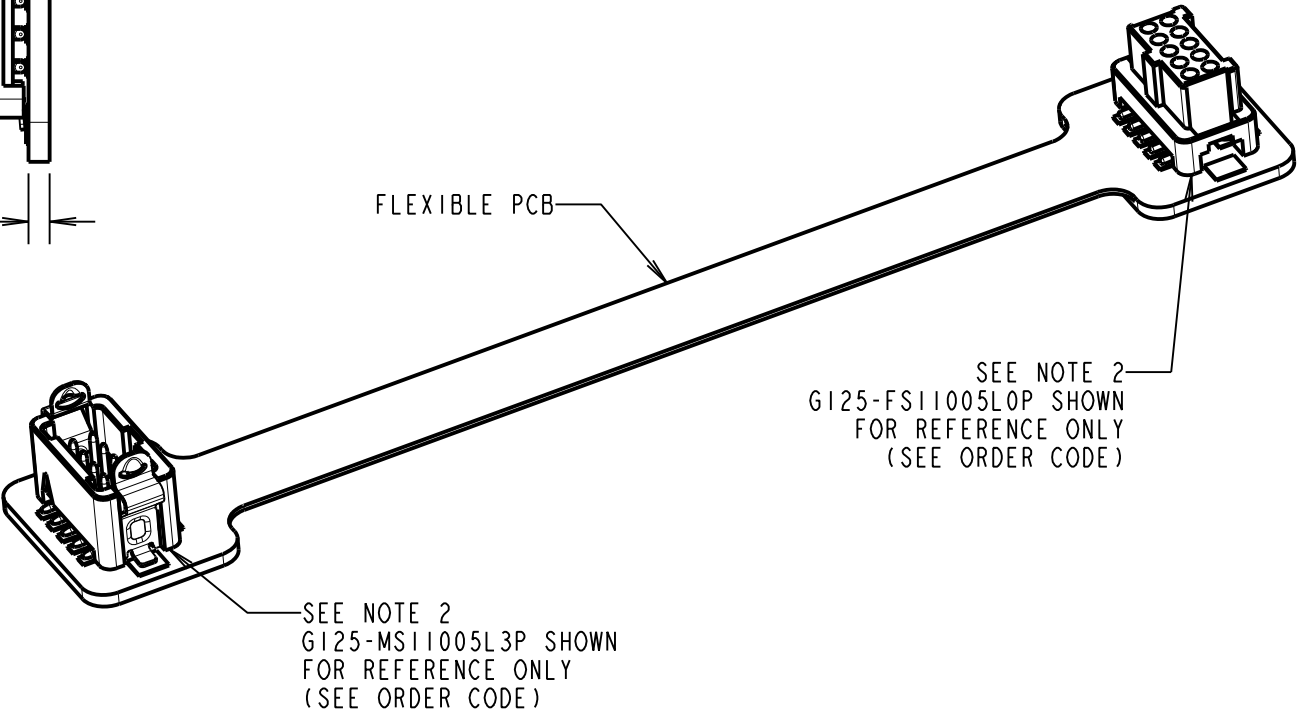
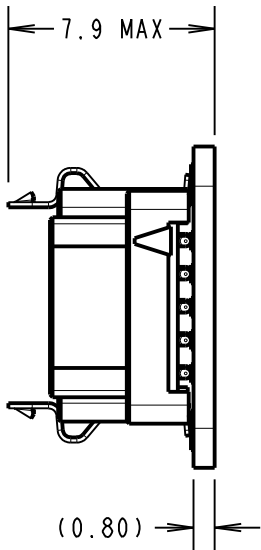
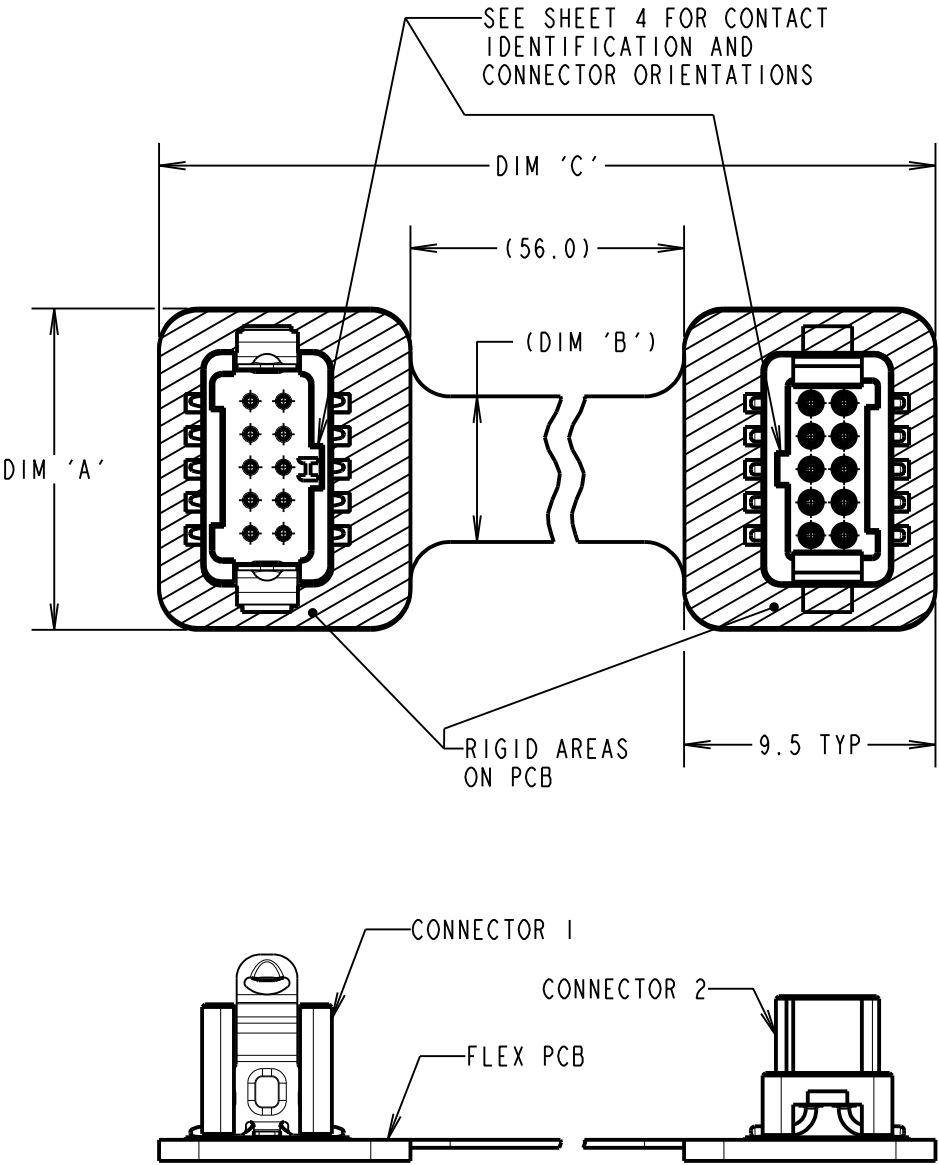
CONNECTOR 2 PART No.:

MSI = G125-MS1XX05L3P

FSI = G125-FS1XX05L0P

DIM 'C' (PCB LENGTH):

999 = 999mm MAX.



FLEX PCB SPECIFICATION:

- BOARD CONSTRUCTION:
- SINGLE LAYER FLEXIBLE PCB
  - 50µm BASE POLYIMIDE
  - 35µm (1oz) COPPER CLAD TO IPC-4204/1
  - 50µm BONDED COVERLAY TO IPC-4203/1
  - 0.8mm HTG FR4 TO IPC-4101/126 LOCALLY RIGIDISED IN CONNECTOR AREAS
- SURFACE FINISH:
- ENIG TO IPC-4552 ON EXPOSED COPPER
- IPC CLASSIFICATION:
- BARE CIRCUIT - IPC-A-600/IPC-6013 CLASS 3
  - ASSEMBLY - IPC-A-610/J-STD-001 CLASS 3
- MECHANICAL PROPERTIES:
- NOMINAL FLEX THICKNESS = 0.185mm
  - MINIMUM STATIC BEND RADIUS (IPC-2223) = 1.85mm
  - SUITABLE FOR DYNAMIC OPERATION ON BEND RADII ABOVE 3.70mm
- ELECTRICAL PROPERTIES:
- MAX. CURRENT PER TRACK = 0.4A
  - INSULATION RESISTANCE = 10GΩ MIN AT 500V DC
  - VOLTAGE PROOF (AT 1013mbar, SEA LEVEL) = 600V DC OR AC PEAK

- NOTES:
- FOR COMPLETE CONNECTOR SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
  - CONNECTORS SHOWN FOR REFERENCE ONLY. SEE TABLE 2 ON SHEET 4 AND ORDER CODE FOR POSSIBLE CONFIGURATIONS.

TABLE 1

DIMENSION	CALCULATION
DIM 'A'	(TOTAL No. OF CONTACTS -2) x0.625 + 7
DIM 'B'	(TOTAL No. OF CONTACTS +1) x0.5 ±0.07
DIM 'C'	OVERALL PCB LENGTH (SEE ORDER CODE)

EXAMPLE:  
75mm FLEX PCB WITH 10 CONTACT CONNECTORS  
(G125-MS11005L3P, G125-FS11005L0P)

PART NUMBER = G125-F1MS110-075-FS1  
DIM 'A' = 12mm, DIM 'B' = 5.5mm, DIM 'C' = 75mm

RTP	4	06.07.20	30088
NAME	ISS.	DATE	CN/CO
APPROVED: R.PORTLOCK			
CHECKED: M.RUDKIN			
DRAWN: R.PORTLOCK			
CUSTOMER REF.:			
ASSEMBLY DRG:			

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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:

mm<sup>2</sup>

TITLE:

G125 LATCHED FLEX PCB  
ASSEMBLY

DRAWING NUMBER:

G125-F1XXXXX-XXX-XXX

SHT

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# Customer Information Sheet

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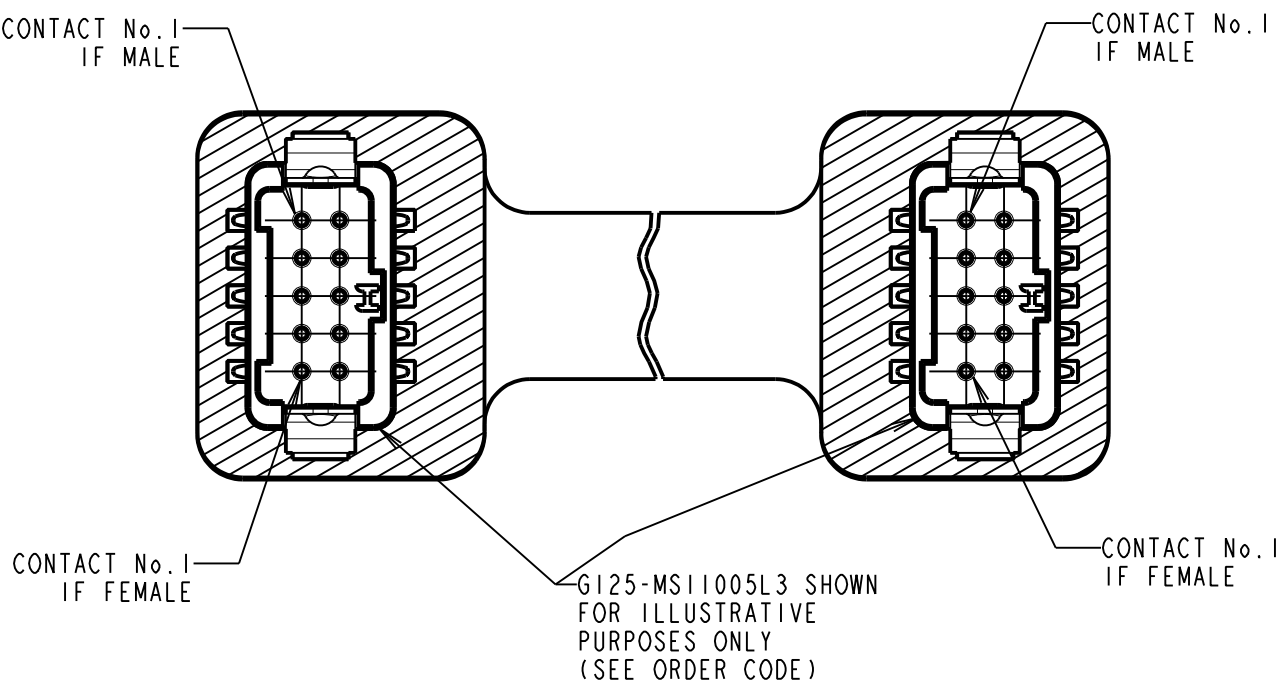
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PINOUT A



PINOUT B

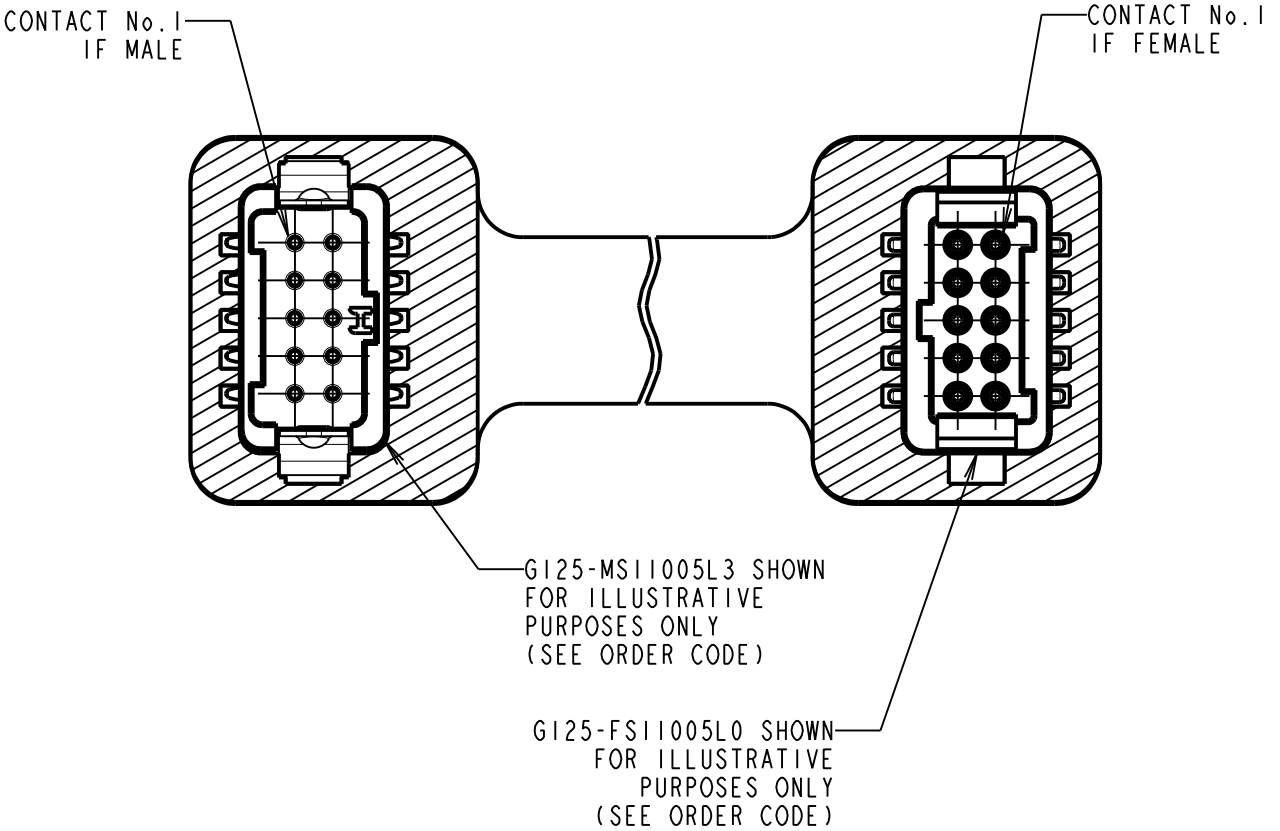


TABLE 2

CONNECTOR 1		CONNECTOR 2		PINOUT
PART No.	ORIENTATION	PART No.	ORIENTATION	
G125-MS1XX05L3P	AS SHOWN	G125-MS1XX05L3P	SAME AS CONNECTOR 1	PINOUT A
G125-MS1XX05L3P	AS SHOWN	G125-FS1XX05L0P	OPPOSITE OF CONNECTOR 1	PINOUT B
G125-FS1XX05L0P	AS SHOWN	G125-FS1XX05L0P	SAME AS CONNECTOR 1	PINOUT A

PINOUT ROUTING

PINOUT A	FOR ALL FIRST ROW CONTACTS: CONTACT X TO CONTACT ((TOTAL/2)+X) (WHERE X IS CONTACT POSITION) FOR ALL SECOND ROW CONTACTS: CONTACT Y TO CONTACT (Y-(TOTAL/2)) (WHERE Y IS CONTACT POSITION)
PINOUT B	FOR ALL CONTACTS: CONTACT Z TO CONTACT Z (WHERE Z IS CONTACT POSITION)

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AND MALE-TO-FEMALE CONFIGURATIONS.

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FSI = G125-FS1XX05L0P  
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X.XX = ±0.20mm  
X.XXX = ±0.01mm  
ANGLES = ±5°  
UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm<sup>2</sup>

TITLE:

G125 LATCHED FLEX PCB  
ASSEMBLY

DRAWING NUMBER:

G125-F1XXXXX-XXX-XXX

SHT  
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