161 Alden Road, Units 7 & 8, Markham, Ontario Canada L3R 3W7
Tel: +1 416 754-3322 Fax: +1 416-754-3299
Email: support@edac.net http://www.edac.net

ENGINEERING CHANGE NOTICE

Originator:	Wenyu Qin	Date:	Document Number
Phone No.	416-754-3322	January 20, 2026	20260120-00
Email Address:	wqin@edacgroup.net		
Department	Quality	Revision Number	SHEET
		R4	1 of 3

CHANGE TYPE:

- [ ] **CLASS I** Customer notification and approval required prior to implementation
- [X] **CLASS II** Customer notification only, no approval required
- [ ] **CLASS III** No customer notification required

REASON OF CHANGE

Specification Updates

DESCRIPTION OF CHANGE:

The part 686A03222001D1E has undergone the following updates:
1. Added detailed dimensions for Section A–A.
2. Updated the PCB layout dimensions.

All these changes can be found on pages 2, highlighted with red circles.

PARTIES AFFECTED

- [X] Customer
- [X] Distributors
- [ ] Suppliers
- [ ] NORCOMP
- [ ] MH
- [X] ETW
- [X] ECA
- [X] EDG
- [X] EDAC UK

KEY TARGET DUE DATES IF CHANGE IS APPROVED TO PROCEED (check if applicable and show target dates as known)

- [ ] Submit Quote _____
- [ ] Prod. Trial Run _____
- [ ] Run at Rate _____
- [ ] PPAP from Supplier _____
- [ ] MRD of Production Parts _____
- [ ] UL / CSA / RoHS / REACH _____

ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)

- [ ] Tooling Rep
- [ ] Mfg Eng Rep
- [ ] Production Rep
- [ ] Materials Rep
- [x] Quality Rep — Wenyu Qin
- [x] Marketing Rep — Marco Lamanna
- [ ] Facilities Rep
- [x] Sales Rep. — Esther Marothy
- [ ] Product Eng. Rep.
- [ ] Purchasing Rep

STATUS

APPROVED ☑

CCS CHANGE REQUEST #

☐ REJECTED

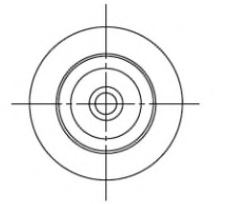
Change REJECTED by:

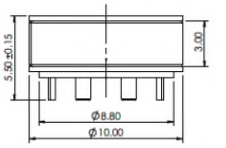
Rejected Date:

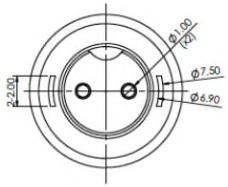
APPROVALS FOR ECN INITIATION (REQUIRED)

- General Manager — Bob Sakitkovski
- Engineering Manager — Ronnie Sta Monica (Ronnie Sta. Monica)
- Business Development Manager — Kobie Samuels K. Sam 1-22-26
- Quality Engineer — Wenyu Qin (Wenyu Qin)
- Engineer — Vinesh Kamania (Vinesh Kamania)

R3







TOLERANCE UNLESS OTHERWISE SPECIFIED	
X	±0.15
.XX	±0.10

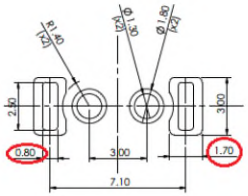
THIS IS A C.A.D. GENERATED DRAWING
DO NOT MAKE MANUAL REVISIONS TO MASTER.

ISSUE NUMBER	
ORIGINAL	1
ADD NOTE 4 & 5 P.M. AUG. 12/2023	2
DELETE DIM 3.00 & 4.00 REVISE NOTE 1 & NOTE 2 L.K. AUG. 18/2023	3

SPECIFICATION:
1- MATERIAL:
CONTACT: BRASS, GOLD FLASH PLATING ALL OVER NICKEL UNDERPLATING
HOUSING: PA9T, BLACK
MAGNET: N52
2- ELECTRICAL:
RATED VOLTAGE (PER CONTACT): 24V
RATED CURRENT (PER CONTACT): 2A
3- WORKING TEMPERATURE RANGE: -30~+85°C.

4- RECOMMENDED SOLDERING PROCESS ARE SELECTIVE SOLDERING OR MANUAL SOLDERING. OTHER FORMS OF SOLDERING SUCH AS WAVE SOLDER OR REFLOW SOLDER ARE NOT RECOMMENDED AND CAN POTENTIALLY CAUSE DEMAGNETIZATION OF MAGNET IN THE CONNECTOR

5- MATING WITH: 687A0322A011L00



PCB LAYOUT
LAYOUT TOLERANCE: ±0.05MM

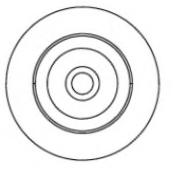
THIS SERIES FULLY CONFORMS TO THE EUROPEAN UNION DIRECTIVES 2011/65/EU FOR RoHS COMPLIANCY.

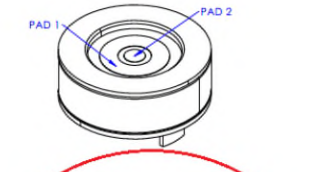
MAGNETIC SPRING LOADED CONNECTOR, 2POS, FEMALE

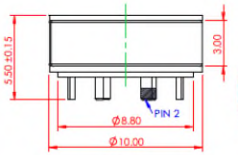
EDAC INC
TORONTO, ONTARIO
CANADA
YOUR CONNECTION TO QUALITY & SERVICE

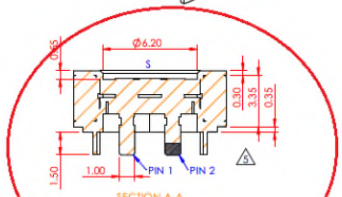
ACAD REFERENCE NO.:	686A03222001D1E	UNIT: MM	
DRAWN: J.L.	DATE: 8/21/2023		
CHECKED: R.S.M	DATE: 8/21/2023		
SCALE: (IN CAD 1:1)	SHEET 1 OF 1		
DRAWING NUMBER:	686A03222001D1E	ISSUE	
PART NUMBER:	686A03222001D1E	3	

R4

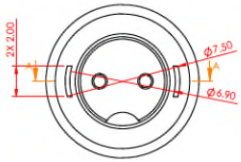


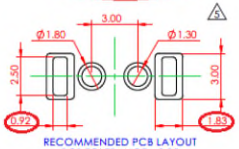






SCHEMATIC DIAGRAM 5
PIN 1 ---------- PAD 1
PIN 2 ---------- PAD 2





RECOMMENDED PCB LAYOUT
PCB TOLERANCE ±0.05

REVISIONS			
REV.	DESCRIPTION	DATE	BY
1	ORIGINAL	DRAWN DATE	J.L
2	ADD NOTE 4 & 5	08/12/2023	P.M
3	DELETE DIM 3.00 & 4.00 REVISE NOTE 1 & NOTE 2	08/18/2023	L.K
4	ADD SECTION VIEW & SCHEMATIC DIAGRAM, UPDATE PCB LAYOUT	01/13/2026	V.K

SPECIFICATIONS

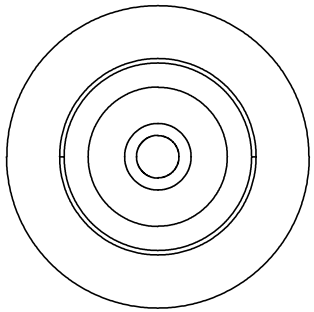
CONTACT MATERIAL:	BRASS
CONTACT PLATING:	GOLD FLASH
HOUSING MATERIAL:	PA9T
HOUSING COLOR:	BLACK
MAGNET MATERIAL:	N52
VOLTAGE RATING (PER CONTACT):	24V
CURRENT RATING (PER CONTACT):	2A
INSULATION RESISTANCE:	100MΩ MIN.
WITHSTANDING VOLTAGE:	100V AT 60 HZ
OPERATING TEMPERATURE:	-30°C TO 85°C
WORKING STROKE:	N/A
STROKE FORCE (PER CONTACT):	N/A
MATING LIFE CYCLE:	10000
MATES WITH:	687A0322A010L00 685A03222011D1E

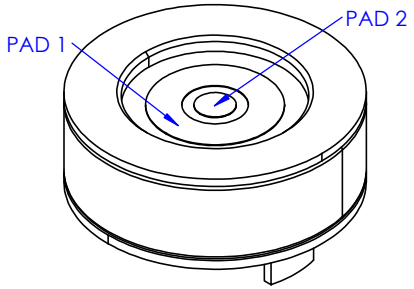
RECOMMENDED SOLDERING PROCESS ARE SELECTIVE SOLDERING OR MANUAL SOLDERING. OTHER FORMS OF SOLDERING SUCH AS WAVE SOLDER OR REFLOW SOLDER ARE NOT RECOMMENDED AND CAN POTENTIALLY CAUSE DEMAGNETIZATION OF MAGNET IN THE CONNECTOR

EDAC

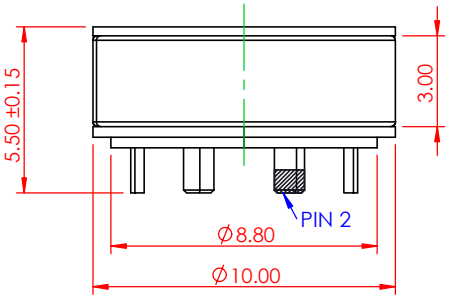
RoHS COMPLIANT

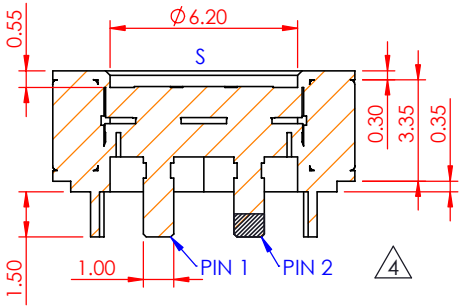
DRAWN BY	J.L	MAGNETIC SPRING LOADED CONNECTOR, 3POS, RECEPTACLE			
DRAWN DATE	03/13/2023				
CHECKED BY	J.L				
CHECK DATE	01/13/2026	PART NUMBER	686A03222001D1E		
TOLERANCES		MATERIAL		SIZE	A
.X ±0.15	ALL DIMENSIONS AND TOLERANCES IN MM	NOTES:		REVISION	
.XX ±0.10				4	
.XXX ±0.05		SCALE 4:1	SHEET 1 OF 1		





REVISIONS			
REV.	DESCRIPTION	DATE	BY
1	ORIGINAL	DRAWN DATE	J.L
2	ADD NOTE 4 & 5	08/12/2023	P.M
3	DELETE DIM 3.00 & 4.00 REVISE NOTE 1 & NOTE 2	08/18/2023	L.K
4	ADD SECTION VIEW & SCHEMATIC DIAGRAM, UPDATE PCB LAYOUT	01/13/2026	V.K



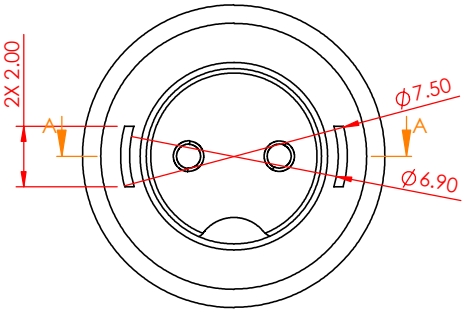


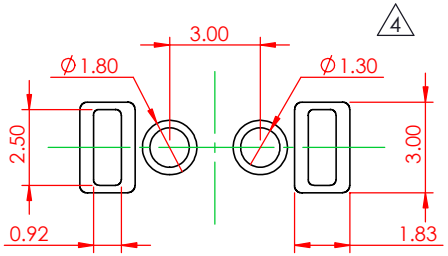
SECTION A-A

SCHEMATIC DIAGRAM 4

PIN 1 ---------- PAD 1

PIN 2 ---------- PAD 2





RECOMMENDED PCB LAYOUT
PCB TOLERANCE ±0.05

SPECIFICATIONS

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CONTACT PLATING:	GOLD FLASH
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HOUSING COLOR:	BLACK
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WORKING STROKE:	N/A
STROKE FORCE (PER CONTACT):	N/A
MATING LIFE CYCLE:	10000
MATES WITH:	687A0322A010L00 685A03222011D1E

RECOMMENDED SOLDERING PROCESS ARE SELECTIVE SOLDERING OR MANUAL SOLDERING. OTHER FORMS OF SOLDERING SUCH AS WAVE SOLDER OR REFLOW SOLDER ARE NOT RECOMMENDED AND CAN POTENTIALLY CAUSE DEMAGNETIZATION OF MAGNET IN THE CONNECTOR

EDAC

RoHS COMPLIANT

DRAWN BY	J.L	MAGNETIC SPRING LOADED CONNECTOR, 3POS, RECEPTACLE			
DRAWN DATE	03/13/2023				
CHECKED BY	J.L				
CHECK DATE	01/13/2026	PART NUMBER	686A03222001D1E		
TOLERANCES		MATERIAL		SIZE	A
.X	±0.15	NOTES:		REVISION	
.XX	±0.10			4	
.XXX	±0.05	SCALE	4:1	SHEET	1 OF 1

ALL DIMENSIONS AND TOLERANCES IN MM