

S02 SERIES MATRIX

S 0 2 2 0 9 T A 1 1 1 * *

SERIES:
S02- INTERNAL THREAD
FORM B

POLES:
2-2 POLE

THREAD:
07-PG7
09-PG9
11-PG11
M2-M12X1.5
M6-M16X1.5

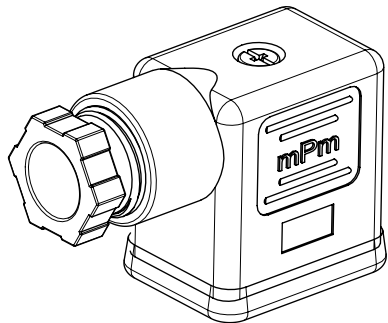
MATERIAL AND
HOUSING COLOUR:
G-PA6 GRAY
N-PA6 BLACK
W-PA6 BLACK V0
T-PA12 TRANSPARENT
B-PA6 WHITE

CIRCUIT:
SEE DETAILS
IN CATALOGUE

VOLTAGE:
SEE DETAILS
IN CATALOGUE

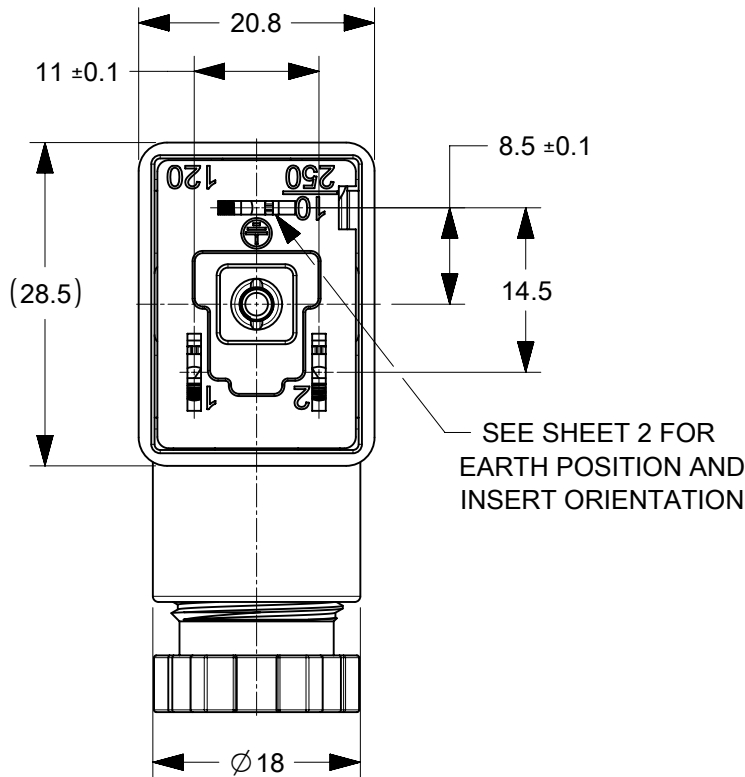
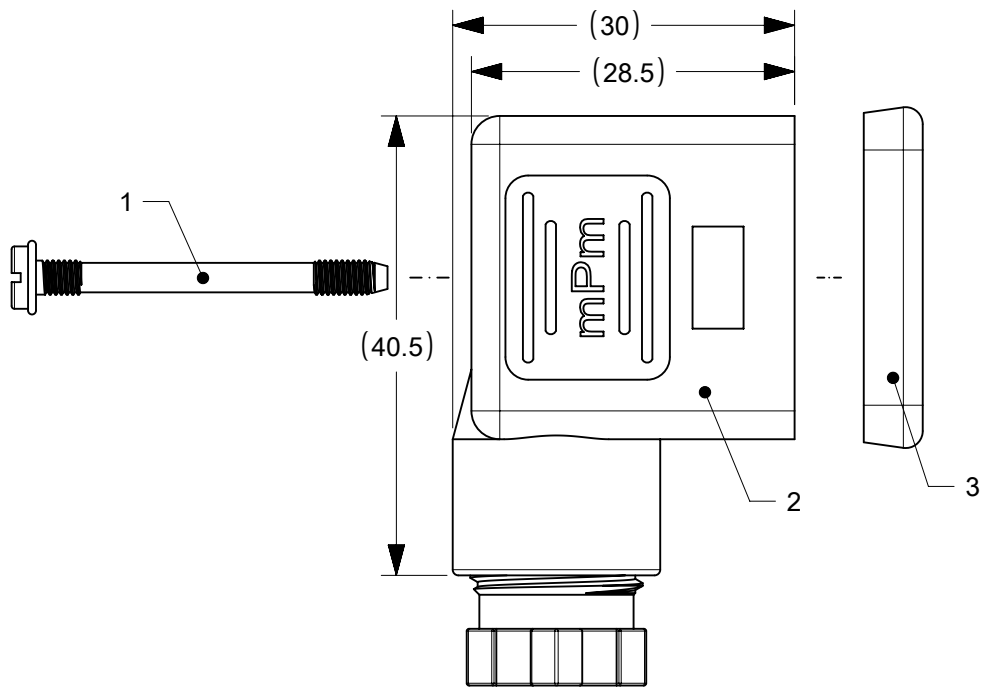
SCREW AND GASKET:
1- NBR PROFILE GASKET & SCREW
2- NBR FLAT GASKET & SCREW
3-WHITE SILICON PROFILE GASKET & SCREW
4-WHITE SILICON FLAT GASKET & SCREW
A-NBR PROFILE GASKET & SCREW +2MM
B-NBR FLAT GASKET & SCREW +2MM

NON STANDARD COMPONENTS:
04-EARTH POSITION AT H6
14-PACKED IN NEUTRAL BAG
A-SCREW 2MM LONGER THAN STANDARD
5A-SINGLE BAGGED WITH 500 IN A BOX
5J-100 IN A BOX
5N-PACKED IN BOXES OF 200
SA-UL LISTED



SCALE 1:1

SEE TABLE 1 FOR GASKET AND SCREW TYPES



GASKET HIDDEN FOR CLARITY

SEE SHEET 2 FOR
EARTH POSITION AND
INSERT ORIENTATION

ITEM	DESCRRPTION/OPIS
1	SCREW
2	COVER+INSERT ASSEMBLY
3	GASKET

TABLE 1

PROFIED GASKET	FLAT GASKET	SCREW M3x31

TECHNICAL SPECIFICATION:

OPERATING CURRENT: 16A
CONTACT RESISTANCE: <15 mOhms MAX.

OPERATING TEMPERATURE:
NBR GASKET: -40° TO +90°C
SILICONE GASKET: -40° TO 125°C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBER AS PER PCN#509989.				molex					
mm		3:2											
GENERAL TOLERANCES (UNLESS SPECIFIED)				S022 PG9 T WPCB A1 12V RED LED H12									
ANGULAR TOL ± 1.0°													
4 PLACES		±		EC NO: 708673				PRODUCT CUSTOMER DRAWING					
3 PLACES		±		DRWN: SANTHN 2022/05/26									
2 PLACES		± 0.05		CHK'D: GGA 2022/06/22									
1 PLACE		± 0.3		APPR: GGA 2022/06/22				DOCUMENT NUMBER 1210641752					
0 PLACES		± 0.5		INITIAL REVISION:						DOC TYPE			
				DRWN: MDHARMANTI 2018/11/29						DOC PART			
				APPR: RSILLER 2019/02/14				REVISION					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		121064		SEE PART LIST		GENERAL MARKET		1 OF 2	

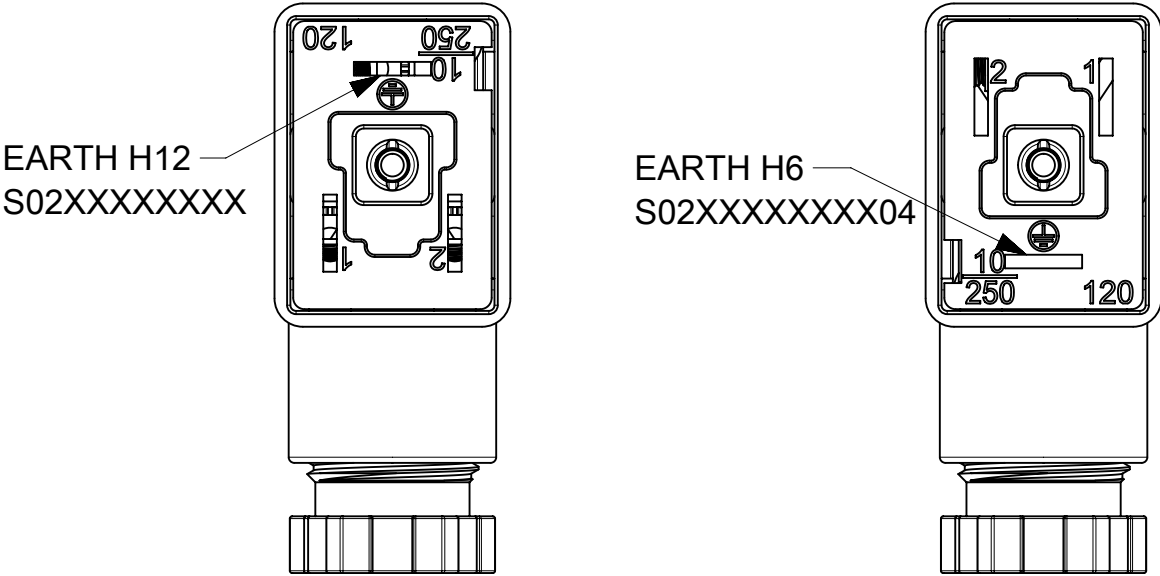
PART LIST AND BOM

ENGINEERING NO.	MOLEX P/N	EARTH
S02207TC421	1210640007	H12
S02209ND021	1210640035	H12
S02209ND041	1210640037	H12
S02209ND051	1210640038	H12
S02209NE051	1210640039	H12
S02209TA121	1210640058	H12
S02209TA122	1210640060	H12
S02209TA141	1210640064	H12
S02209TA151	1210640068	H12
S02209TA152	1210640069	H12
S02209TA1H1	1210640077	H12
S02209TC321	1210640087	H12
S02209TC3B1	1210640093	H12
S02209TC3H1	1210640094	H12
S02209TC421	1210640097	H12
S02209TC422	1210640099	H12
S02209TC431	1210640102	H12
S02209TC441	1210640104	H12
S02209TC442	1210640106	H12
S02209TC451	1210640108	H12
S02209TC452	1210640110	H12
S02209TC4B1	1210640113	H12
S02209TC4D2	1210640117	H12
S02209TC4E2	1210640119	H12
S02209TC4H1	1210640120	H12
S02209TC4L1	1210640122	H12
S02209TC4M1	1210640124	H12
S02209WE051	1210640129	H12
S02209TC4G1	1210641343	H12

ENGINEERING NO.	MOLEX P/N	EARTH
S022M6NE052	1210641364	H12
S022M6TC4H1	1210641375	H12
S02209TC421SA	1210641395	H12
S022M6TC421	1210641406	H12
S02209TC332	1210641409	H12
S02209WE051SA	1210641585	H12
S02207TC321	1210641593	H12
S022M0TC4B1	1210641649	H12
S02209TC421B	1210641655*	H12
S02209TC322	1210641742	H12
S02209TA111	1210641752	H12
S02209TA1H2	1210641818	H12
S02209TA12204	1210650061	H6
S02209TC3228602	1210650077*	H12
S02209TC4228602	1210650084*	H12
S02209TC4428602	1210650088*	H12
S02209NE0522465	1210650554*	H12
S02207TC422SA	1210641353	H12
S022M2TA121	1210641584	H12
S02207TC441SA	1210641631	H12

INSERT ORIENTATION

HOUSING 2 POLES +1 EARTH



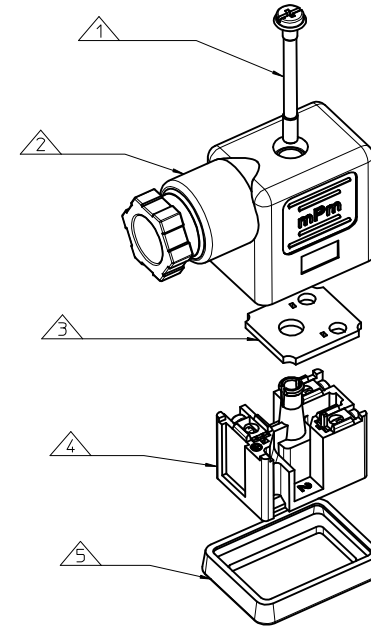
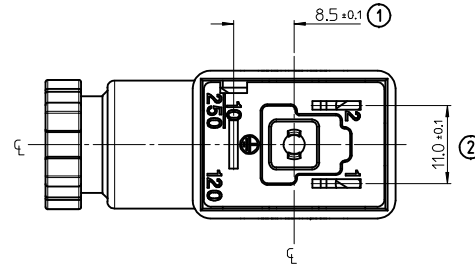
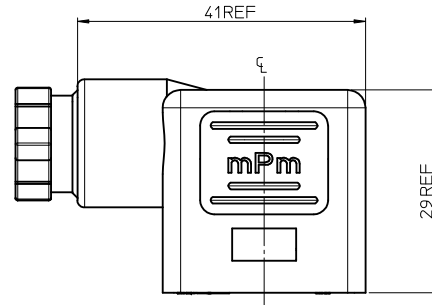
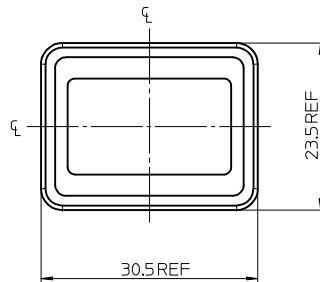
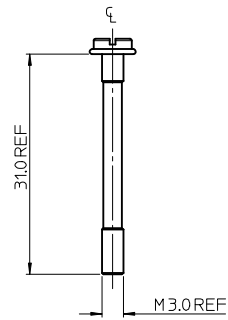
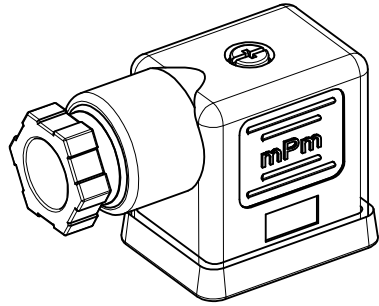
NOTE:

* P/Ns 1210650554, 1210650088,1210650084, 1210650077 & 1210641655 are special customer P/N's.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
DIMENSION UNITS		SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBER AS PER PCN#509989.								
mm		3:2									
GENERAL TOLERANCES (UNLESS SPECIFIED)			molex S022 PG9 T WPCB A1 12V RED LED H12								
ANGULAR TOL	±	1.0 °									
4 PLACES	±										
3 PLACES	±										
2 PLACES	±	0.05									
1 PLACE	±	0.3	INITIAL REVISION:			DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
0 PLACES	±	0.5	DRWN: MDHARMANTI			2018/11/29			1210641752		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION			DRAWING			SERIES		
						A3-SIZE			121064		
						MATERIAL NUMBER			CUSTOMER		
						SEE PART LIST			GENERAL MARKET		
									SHEET NUMBER		
									2 OF 2		

DOCUMENT STATUS	P1	RELEASE DATE	2022/06/22	14:10:33
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EM-121064-094



ITEM	DESCRIPTION
1	SCREW
2	COVER ASSEMBLY
3	PCB
4	INSERT ASSEMBLY
5	GASKET

S02209TA111**

SERIES S02= INTERNAL THREAD FORM B
 POLES 2= 2 POLE
 THREAD 07= PG7, 09= PG9, 11= PG11, M2= M12x1.5, M6= M16x1.5, M0= M20x1.5, 39= PG9 WITH STRAIN RELIEF
 MATERIAL AND HOUSING COLOUR G= PA6 GRAY, N= PA6 BLACK, W= PA6 BLACK V0, T= PA12 TRANSPARENT, B= PA6 WHITE
 CIRCUIT SEE DETAILS IN CATALOGUE
 VOLTAGE SEE DETAILS IN CATALOGUE
 SCREW AND GASKET 1= NBR PROFILE GASKET & SCREW, 2= NBR FLAT GASKET & SCREW, 3= WHITE SILICON PROFILE GASKET & SCREW, 4= WHITE SILICON FLAT GASKET & SCREW, A= NBR PROFILE GASKET AND SCREW +2mm, B= NBR FLAT GASKET AND SCREW +2mm

NON STANDARD COMPONENTS 04= EARTH POSITION AT H6, 14= PACKED IN NEUTRAL BAG, A= SCREW 2mm LONGER THAN STANDARD, 5A= SINGLE BAGGED WITH 500 IN A BOX, 5J= 100 IN A BOX, 5N= PACKED IN BOXES OF 200, SA= UL LISTED

NOTES

- PLEASE SEE SHEET 2 FOR CURRENTLY CONFIGURED PART NUMBERS. FOR SPECIFIC PART NUMBERS PLEASE CONTACT SALES OR CONSULT THE INTELLIGENT PART NUMBERS IN THE TABLE ATTACHED.
- EARTH POSITION SHOWN, H6.
- PRODUCT SPEC: SEE PS-121201-001, WITH EXCEPTION.
- FOR PACKAGING SEE PACKAGING SPEC PK-121065-S02.

LAST INSPECTION NUMBER 2

UPDATED NOTE 3 EC NO: IPG2015-1871 DRWN: B. CAFFEY 2015/04/28 CHKD: CHIKO APPR: ST. GRIFFIN 2015/05/13	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
					mm	INCH	DRAWN BY JOCONNOR		DATE 2011/05/18	TITLE S02 SERIES INTERNAL THREAD
				4 PLACES	± ---	± ---	CHECKED BY DMAHER		DATE 2011/05/19	
				3 PLACES	± ---	± ---	APPROVED BY EFOLAN		DATE 2011/06/07	
				2 PLACES	± 0.1	± ---	MATERIAL NO.		DOCUMENT NO.	
1 PLACE		± 0.2	± ---	ANGULAR ± ---°		MOLEX MOLEX INCORPORATED		SHEET NO. 1 OF 3		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE SHEET 2 & 3		SD-121064-005				
				SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

SEE SHEET 2 & 3

SIZE A2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PART No.	mPm PART No.	DESCRIPTION	CIRCUIT	VOLTAGE	INDICATOR
1210640093	S02209TC3B1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C3	24V	GREEN LED
1210640039	S02209NE051	TYPE B 2P PG9 BLACK NBR PROFILE GASKET	E0	230V	DIODE
1210641555	S02209WE051A	TYPE B 2P PG9 BLACK V0 NBR PROFILE GASKET & SCREW +2mm	E0	230V	DIODE
1210641364	S022M6NE052	TYPE B 2P M16x1.5 BLACK NBR FLAT GASKET	E0	230V	DIODE
1210640129	S02209WE051	TYPE B 2P PG9 BLACK V0 NBR PROFILE GASKET	E0	230V	DIODE
1210640040	S02209NE052	TYPE B 2P PG9 BLACK NBR FLAT GASKET	E0	230V	DIODE
1210641679	S02209NE05114	TYPE B 2P PG9 BLACK NBR PROFILE GASKET IN NEUTRAL BAG	E0	230V	DIODE
1210640110	S02209TC452	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	230V	RED LED/LAMP
1210650089	S02209TC4515A	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET SINGLE BAGGED 500 IN A BOX	C4	230V	RED LED/LAMP
1210641666	S02209TC45114	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET IN NEUTRAL BAG	C4	230V	RED LED/LAMP
1210641649	S022M0TC4B1	TYPE B 2P M20x1.5 TRANSPARENT NBR PROFILE GASKET	C4	24V	GREEN LED
1210640114	S02209TC4B2	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	24V	GREEN LED
1210640113	S02209TC4B1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	24V	GREEN LED
1210640117	S02209TC4D2	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	115V	GREEN LED
1210641750	S02209TC401	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	115V	GREEN LED
1210640119	S02209TC4E2	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	230V	GREEN LED
1210641343	S02209TC4G1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	12V	AMBER LED
1210640120	S02209TC4H1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	24V	AMBER LED
1210641375	S022M6TC4H1	TYPE B 2P M16x1.5 TRANSPARENT NBR PROFILE GASKET	C4	24V	AMBER LED
1210641601	S02209TC4K2	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	48V	AMBER LED
1210641344	S02209TC4K1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	48V	AMBER LED
1210640123	S02209TC4L2	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	115V	AMBER LED
1210640122	S02209TC4L1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	115V	AMBER LED
1210640094	S02209TC3H1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C3	24V	AMBER LED
1210641686	S02209TC3L1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C3	115V	AMBER LED
1210640077	S02209TA1H1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	A1	24V	AMBER LED
1210640124	S02209TC4M1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	C4	230V	AMBER LED
1210640078	S02209TA1L1	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET	A1	115V	AMBER LED
1210641764	S022M6TC321	TYPE B 2P M16x1.5 TRANSPARENT NBR PROFILE GASKET	C3	24V	RED LED/LAMP
1210640099	S02209TC422	TYPE B 2P PG9 TRANSPARENT NBR FLAT GASKET	C4	24V	RED LED/LAMP
1210641794	S022M6TC421SA	TYPE B 2P M16x1.5 TRANSPARENT NBR PROFILE GASKET, UL LISTED	C4	24V	RED LED

SEE SHEET ONE EC NO: IPG2015-1871 DRAWN BY: DWRN/BCAFFREY CHKD: CHWKO APPR: STJ/RIE/IN 2015/04/28 2015/05/13	DESCRIPTION REV	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
						MM ONLY		1.5:1	METRIC			
						DRAWN BY DATE		TITLE				
						JOCONNOR 2011/05/18		S02 SERIES				
						CHECKED BY DATE		INTERNAL THREAD				
			2 PLACES ± 0.1 ± ---			DMAHER 2011/05/19		MOLEX MOLEX INCORPORATED				
			1 PLACE ± 0.2 ± ---			APPROVED BY DATE						
			ANGULAR ± ---°			EFOLAN 2011/06/07						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
						SEE CHART		SD-121064-005		3 OF 3		
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									