

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

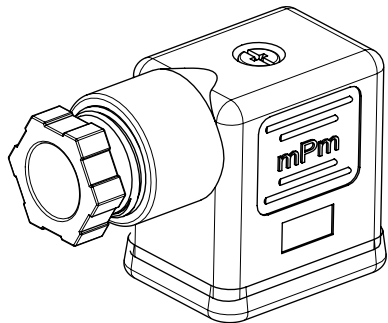
MATERIAL AND
HOUSING COLOUR:
G-PA6 GRAY
N-PA6 BLACK
W-PA6 BLACK V0
T-PA12 TRANSPARENT
B-PA6 WHITE

CIRCUIT:
SEE DETAILS
IN CATALOGUE

VOLTAGE:
SEE DETAILS
IN CATALOGUE

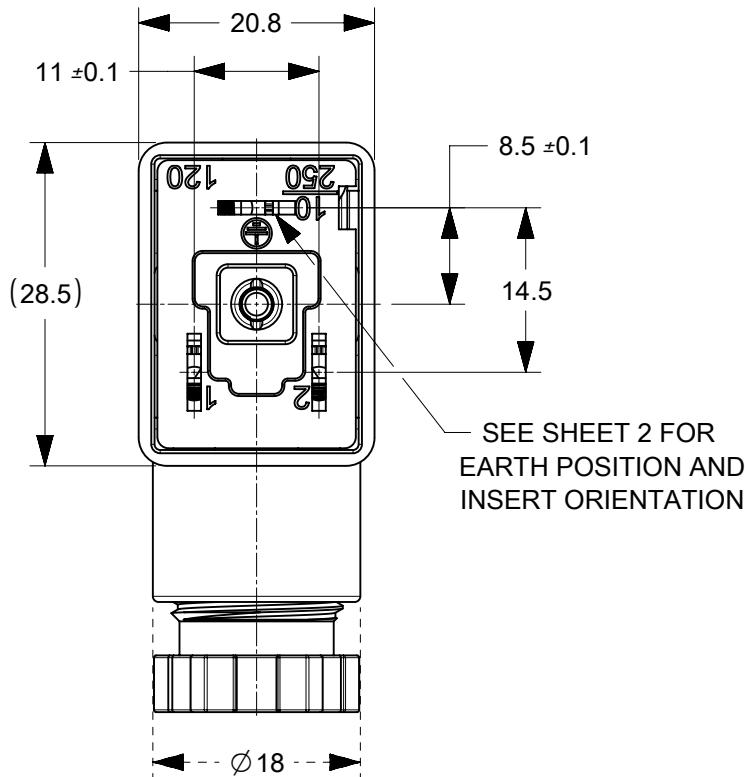
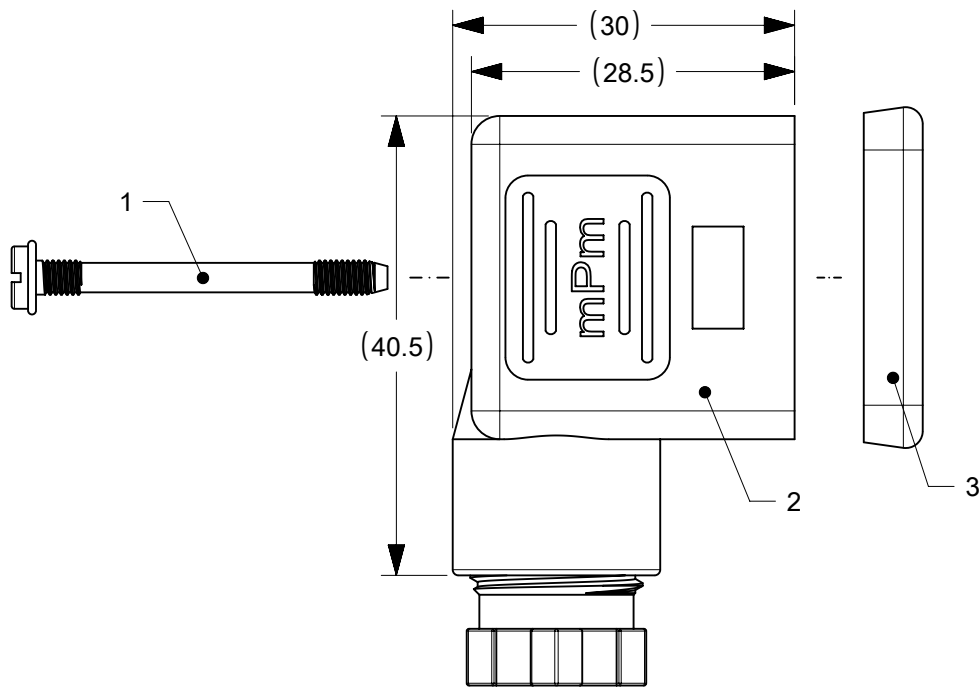
SCREW AND GASKET:
1- NBR PROFILE GASKET & SCREW
2- NBR FLAT GASKET & SCREW
3-WHITE SILICON PROFILE GASKET & SCREW
4-WHITE SILICON FLAT GASKET & SCREW
A-NBR PROFILE GASKET & SCREW +2MM
B-NBR FLAT GASKET & SCREW +2MM

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

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

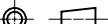
TABLE 1

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 NUMBERS AS PER PCN#514336			molex S022 PG9 T WPCB A1 12V RED LED H12					
mm		3:2										
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 825581 DRWN: SAMP RS2025/04/25 CHK'D: GGA2025/06/25 APPR: GGA2025/06/25								
ANGULAR TOL ± 1.0 °												
4 PLACES		±										
3 PLACES		±										
2 PLACES		± 0.05										
1 PLACE		± 0.3		INITIAL REVISION: DRWN: MDHARMANTI2018/11/29 APPR: RSILLER2019/02/14			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
0 PLACES		± 0.5					1210641752		PSD	000	A3	
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

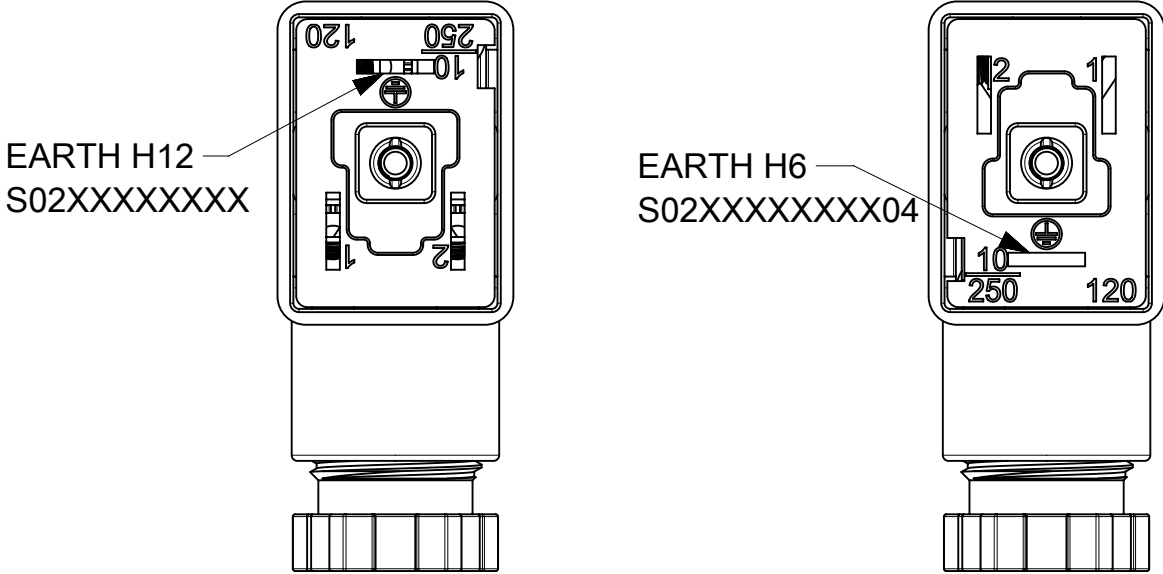
PART LIST AND BOM

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
S02207TC422SA	1210641353	H12
S02207TC441SA	1210641631	H12

INSERT ORIENTATION

HOUSING 2 POLES +1 EARTH

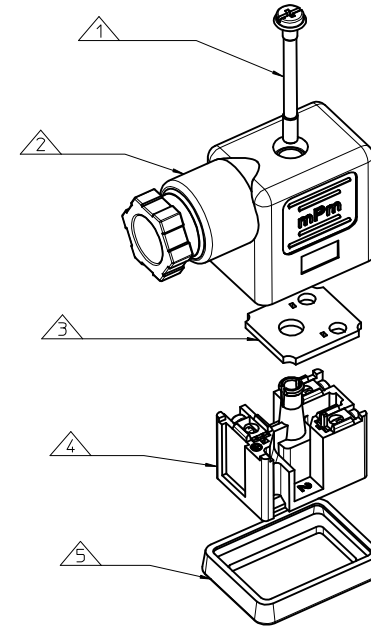
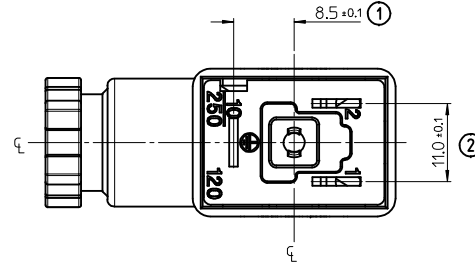
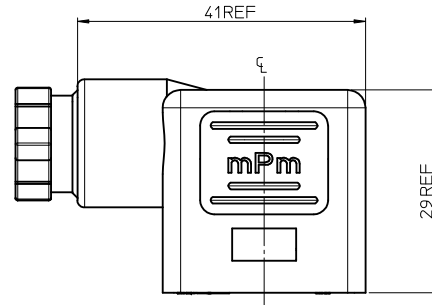
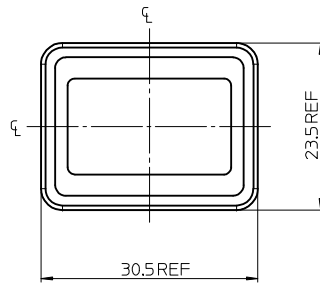
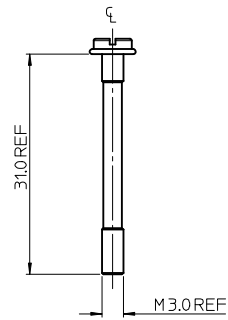
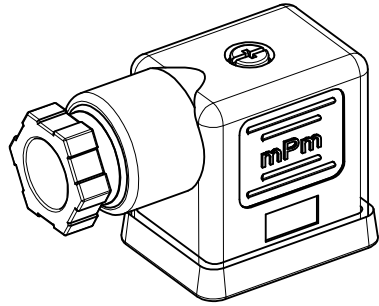


NOTE:
* P/Ns 1210650088,1210650084,
1210650077 & 1210641655 are special customer P/N's.

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 NUMBERS AS PER PCN#514336					molex				
mm		3:2										
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 825581 DRWN: SAMPRS 2025/04/25 CHK'D: GGA 2025/06/25 APPR: GGA 2025/06/25					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: DRWN: MDHARMANTI 2018/11/29 APPR: RSILLER 2019/02/14					DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		± 0.5						1210641752		PSD	000	A3
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		2 OF 2	

DOCUMENT STATUS	P1	RELEASE DATE	2025/06/25	06:18:31
-----------------	----	--------------	------------	----------

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  MOLEX INCORPORATED		
				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 ± ---°		SEE SHEET 2 & 3		SD-121064-005		1 OF 3		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

13	12	11	10	9	8	7	6	5	4	3	2	1
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 M16x15 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	S02209TC4514	TYPE B 2P PG9 TRANSPARENT NBR PROFILE GASKET IN NEUTRAL BAG				C4	230V	RED LED/LAMP				
1210641649	S022M0TC4B1	TYPE B 2P M20x15 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	S02209TC4D1	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 M16x15 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 M16x15 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 M16x15 TRANSPARENT NBR PROFILE GASKET, UL LISTED				C4	24V	RED LED				

SEE SHEET ONE EC NO: IFG2015-1871 DRMNB:CAFFREY 2015/04/28 CHKD: APPR:STURGEON 2015/05/13	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	1.5:1	METRIC	
	▽=0	4 PLACES ±--- ±---	DRAWN BY DATE	TITLE		
		3 PLACES ±--- ±---	JOCONNOR 2011/05/18	SO2 SERIES		
		2 PLACES ±0.1 ±---	CHECKED BY DATE	INTERNAL THREAD		
	1 PLACE ±0.2 ±---	DMAHER 2011/05/19				
		APPROVED BY DATE				
		EFOLAN 2011/06/07	MOLEX MOLEX INCORPORATED			
		ANGULAR ±---°				
		DRAFT WHERE APPLICABLE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		MUST REMAIN	SEE CHART	SD-121064-005	3 OF 3	
		WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			