

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0643194211](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 24 Circuits, Right Wire Output, Black Coding, Mat Sealed, Row 1 Closed

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

[Application Specification \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Crimp Housings
Series	64319
Comments	* Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C . Current max = 6.0A for 0.635mm Terminal (0.75mm² wire) and 12.0A for 1.5mm Terminal (2.0mm² wire) *
More Detailed Tech Information	Sealed, high-density, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
Overview	cmc_connectors
Product Name	CMC

Physical

Circuits (maximum)	24
Circuits Detail	6 x 1.5mm, 18 x 0.635mm terminals
Color - Resin	Black
Gender	Female
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Polyester
Number of Rows	3
Packaging Type	Carton
Panel Mount	No
Pitch - Mating Interface (in)	0.100 In, 0.146 In
Pitch - Mating Interface (mm)	2.54 mm, 3.70 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40°C to +125°C

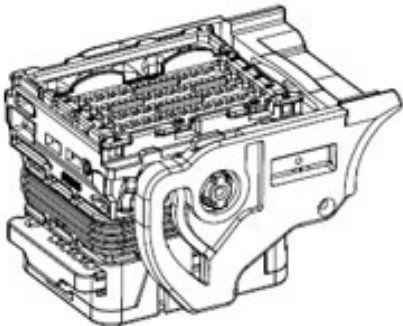
Electrical

Current - Maximum per Contact	12A, 6A
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Material Info

Reference - Drawing Numbers

Packaging Specification	PK-64319-001
Sales Drawing	SD-64319-003, SD-98644-006



Series

image - Reference only

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

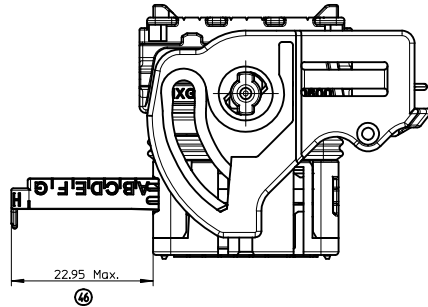
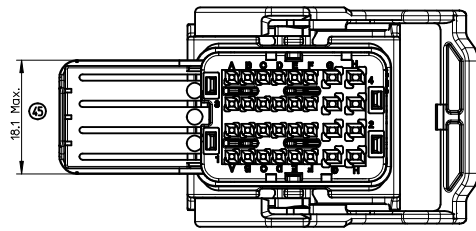
Search Parts in this Series
[64319Series](#)

Mates With
Single 32 Circuit CMC Header - Please Contact Molex

Use With
CMC CP Terminals [64322](#) , [64323](#). CMC Wire Cap [643191201](#). Sealing Plugs [643251010](#) , [643251023](#)

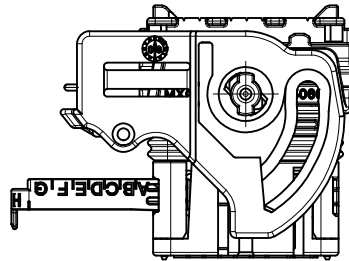
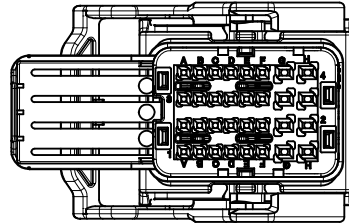
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINALS INSERTION

RIGHT WIRE OUTPUT



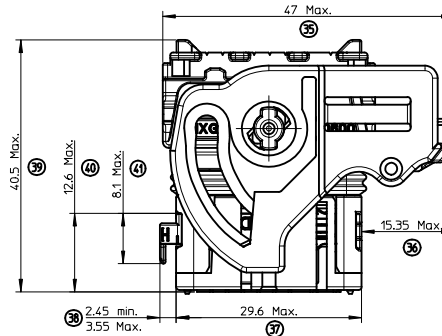
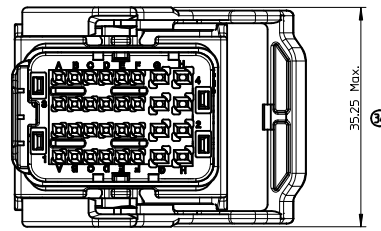
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING FULLY OPENED
FOR TERMINALS INSERTION

LEFT WIRE OUTPUT



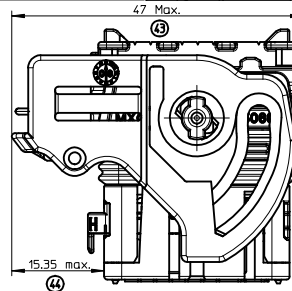
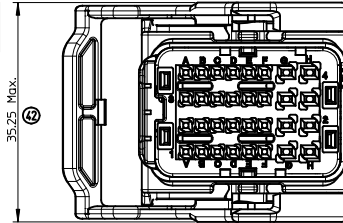
CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN DELIVERY
POSITION

RIGHT WIRE OUTPUT

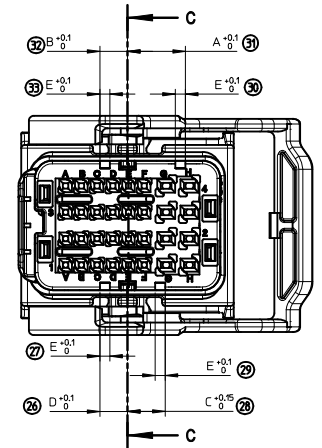


CONNECTOR OVERALL DIMENSIONS:
SECONDARY LOCKING IN DELIVERY
POSITION

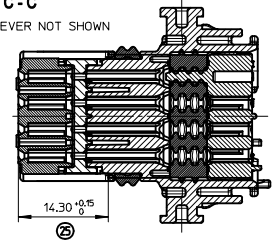
LEFT WIRE OUTPUT



CODING POSITION



C-C
LOCKING LEVER NOT SHOWN



COLOR	CODING	A	B	C	D	E
BLACK	1	9.2	4.4	6	4.4	1.6
GREY	2	7.6	6	9.2	6	1.6
BROWN	3	6	7.6	9.2	9.2	1.6
BLUE	5	4.4	7.6	6	6	1.6

TERMINALS USED

CAVITY N°	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX PIN*	min / MAX WIRE INSULATION DIAMETER (mm)
A1 to F1 A2 to F2 A3 to F3 A4 to F4	CP 0.6 0.35mm2	Tin plated	0643221019	Ø125 min / Ø140 Max
		Gold plated	0643221229	
	CP 0.6 0.5mm2	Tin plated	0643221039	Ø140 min / Ø170 Max
		Gold plated	0643221239	
	CP 0.6 0.75mm2	Tin plated	0643221029	Ø160 min / Ø190 Max
		Gold plated	0643221219	
G1 to H4 G1 to H4	CP 15 0.5mm2 to 1mm2	Tin plated	0643231029	Ø140 min / Ø215 Max
		Gold plated	0643231319	
	CP 15 >1mm2 to 2mm2	Tin plated	0643231039	Ø210 min / Ø280 Max
		Gold plated	0643231219	

UPDATED DRAWING

EC NO: 0
DRAWING: 06/06/04
CHKDC: BOUCHAN

APPR: REV

DESCRIPTION

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	---
2 PLACES ±	0.1	---
1 PLACE ±	0.1	---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY: T. BADAROUX
DATE: 2008/05/23
CHECKED BY: P. GRANDCLAUD
DATE: 2008/05/23
APPROVED BY: C. BOUCHAN
DATE: 2008/05/23
MATERIAL NO.
SEE SHEET 2/3

SCALE
2.5:1

DESIGN UNITS
METRIC

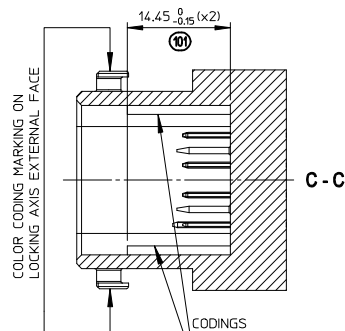
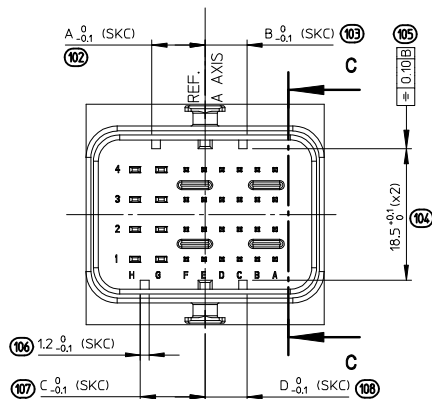
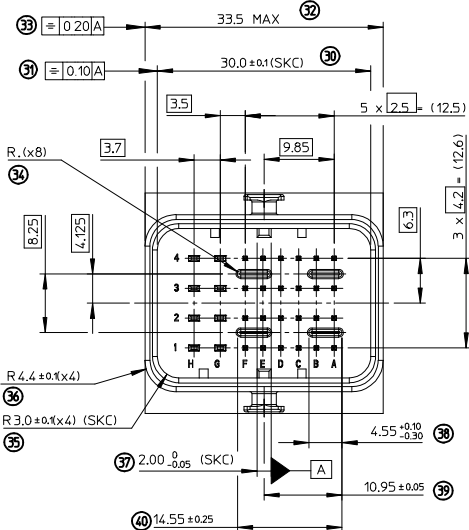
FIRST ANGLE
PROJECTION

TITLE
CMC CONNECTOR 24 WAY
MAT SEAL VERSION

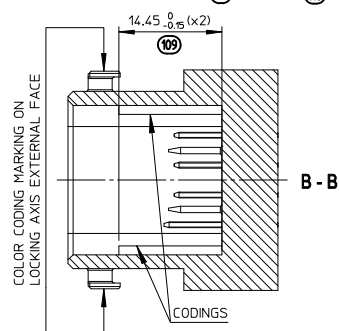
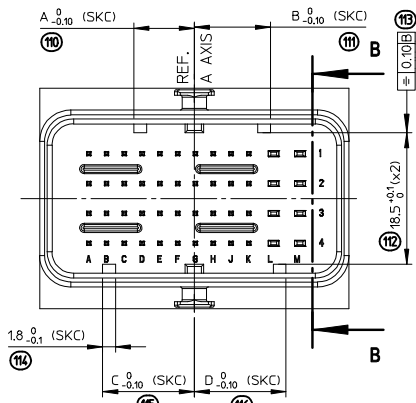
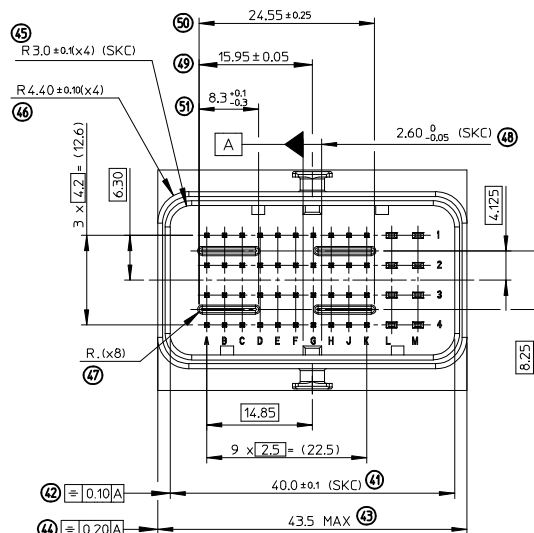
MOLEX INCORPORATED
DOCUMENT NO. SD-64319-003
SHEET NO. 2 OF 2

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

INTERFACE FOR HYBRID MODULE T2 (32 WAY)

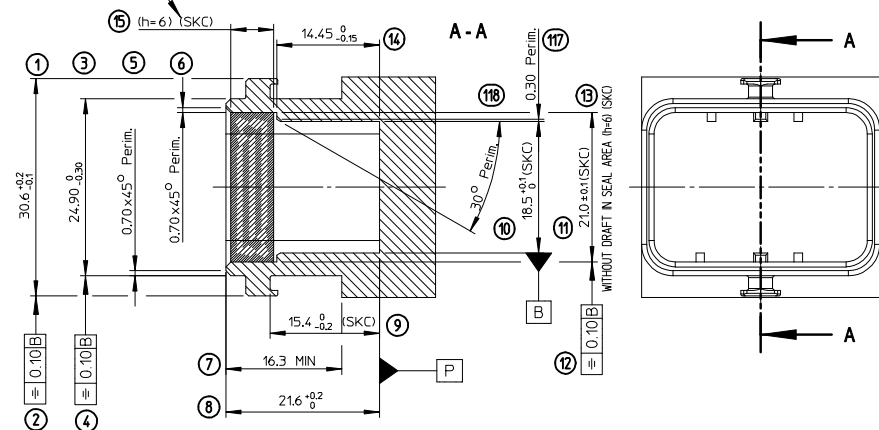


INTERFACE FOR HYBRID MODULE T3 (48 WAY)



INTERFACES FOR HYBRID MODULES T2 (32 WAY) AND T3 (48 WAY)

SEAL AREA:
NO DEFECT IN THIS AREA (SPLIT LINE, BURRS,
SHRINK MARK, SCRATCH, BURN, NOT ALLOWED)



HEADERS CODINGS

(CODING 2 SHOWN)

HEADER'S CODINGS FOR MODULE T2 (32W)					
COLOR	CODINGS	DIM. A	DIM. B	DIM. C	DIM. D
BLACK	1	9.1	4.3	5.9	4.3
GREY	2	7.5	5.9	9.1	5.9
BROWN	3	5.9	7.5	9.1	9.1
GREEN	4	7.5	9.1	4.3	4.3
BLUE	5	4.3	7.5	5.9	5.9
YELLOW	6	9.1	7.5	4.3	7.5

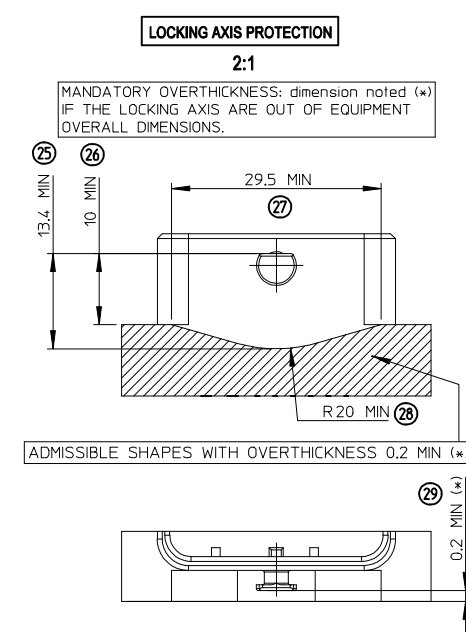
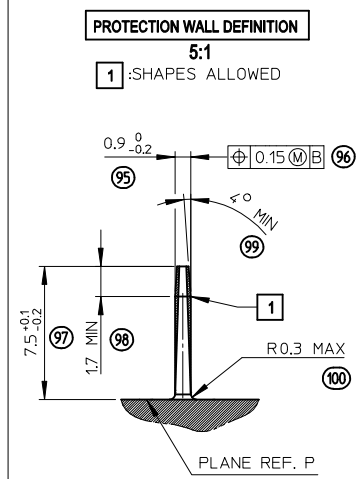
(CODING 3 SHOWN)

HEADER'S CODINGS FOR MODULE T3 (48W)					
COLOR	CODINGS	DIM. A	DIM. B	DIM. C	DIM. D
BLACK	1	12.9	6.3	8.5	6.3
GREY	2	10.7	8.5	12.9	8.5
BROWN	3	8.5	10.7	12.9	12.9
GREEN	4	10.7	12.9	6.3	6.3
BLUE	5	6.3	10.7	8.5	8.5
YELLOW	6	12.9	10.7	6.3	10.7

(SKC) SPECIAL KEY CHARACTERISTIC
QUANTITY PER INDIVIDUAL SHEET
(SKC) = 20

NOTE:
1- HEADER: ELASTICITY MODULUS: 8000Mpa min.
(INITIAL CONDITION BEFORE AGEING)

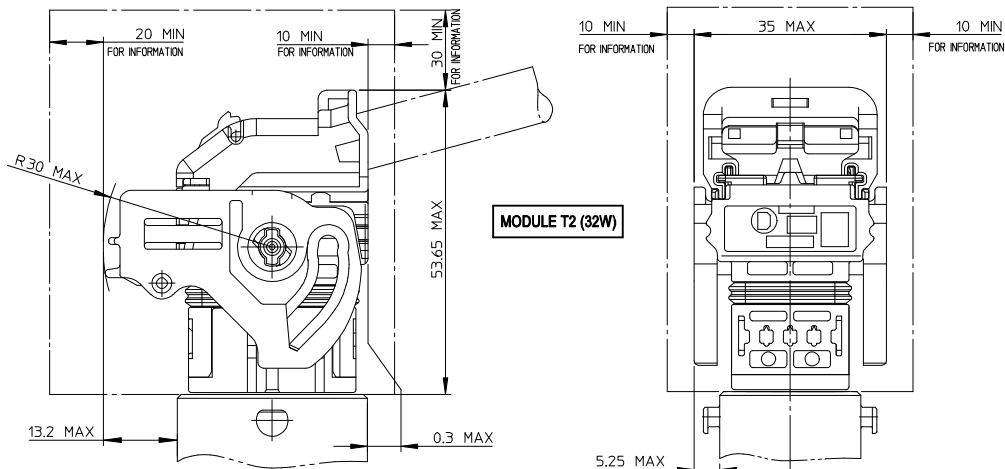
REVISED EC NO: G2009-0185 DRWG: DESBRUERES 2008/12/10 CHKD: J. GIURIATO 2008/12/11 APPR: O.PLESSIS 2008/12/15	DESCRIPTION GENERAL TOLERANCES (UNLESS SPECIFIED) DIMENSION STYLE MM ONLY SCALE 2:1 DESIGN UNITS METRIC FIRST ANGLE PROJECTION	TITLE INTERFACES FOR MODULES 32 & 48 CKT CMC GENERIC SALES DRAWING MOLEX INCORPORATED SD-98644-006 SHEET NO. 1 OF 3



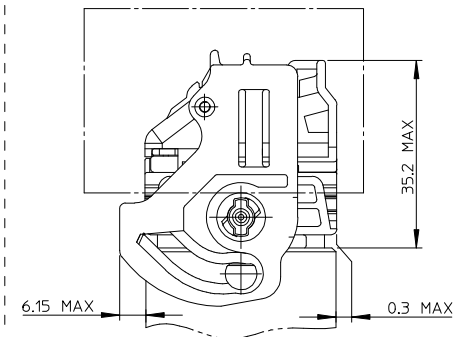
tb_frame_A2_P_AM_F Rev. E 2006/04/15	12	11	10	9	8	7	6	5	4	3	2	1
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CONNECTOR ON HEADER - OVERALL DIMENSIONS

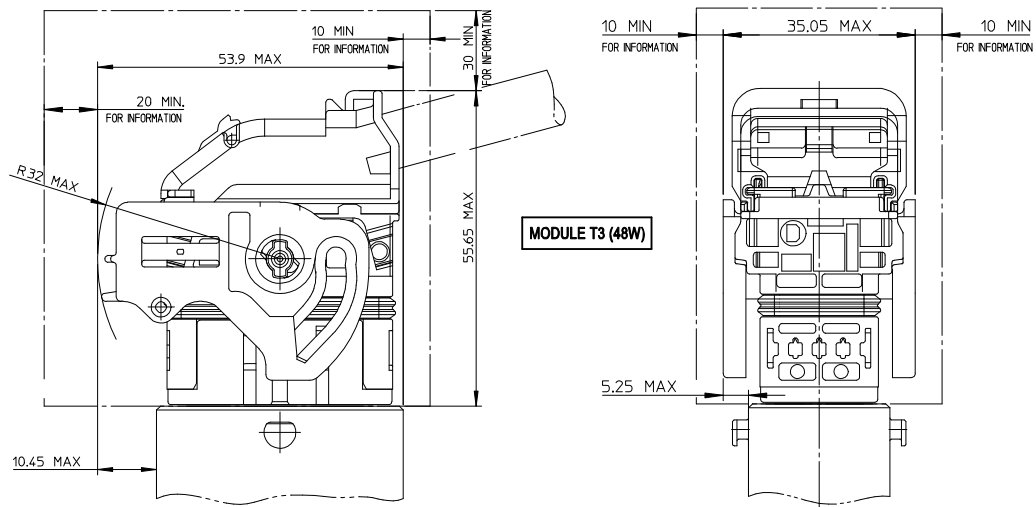
UNLOCKED CONNECTOR - OVERALL DIMENSIONS



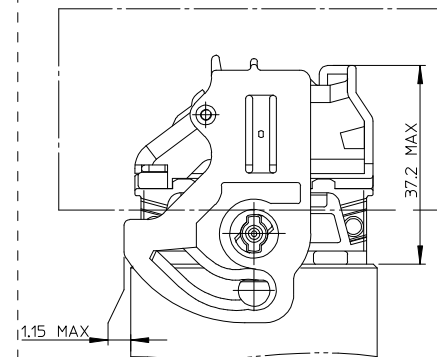
LOCKED CONNECTOR - OVERALL DIMENSIONS



UNLOCKED CONNECTOR - OVERALL DIMENSIONS

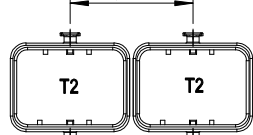


LOCKED CONNECTOR - OVERALL DIMENSIONS

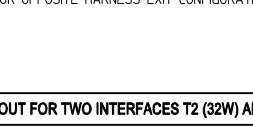


LAYOUT FOR TWO INTERFACES T2 (32W)

FOR SAME HARNESS EXIT CONFIGURATION
40.0 MIN

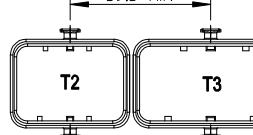


FOR OPPOSITE HARNESS EXIT CONFIGURATION
50.0 MIN



LAYOUT FOR TWO INTERFACES T2 (32W) AND T3 (48W)

FOR SAME HARNESS EXIT CONFIGURATION
39.5 MIN

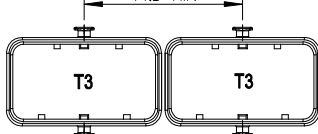


FOR OPPOSITE HARNESS EXIT CONFIGURATION
53.5 MIN

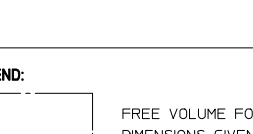


LAYOUT FOR TWO INTERFACES T3 (48W)

FOR SAME HARNESS EXIT CONFIGURATION
44.5 MIN



FOR OPPOSITE HARNESS EXIT CONFIGURATION
53.5 MIN



MULTI-HEADERS LAYOUT

LEGEND:



FREE VOLUME FOR MANUAL LOCKING AND UNLOCKING
DIMENSIONS GIVEN FOR INFORMATION ONLY TO BE
CONFIRMED BASED UPON VEHICLE CONFIGURATION.

(SKC) SPECIAL KEY CHARACTERISTIC

QUANTITY PER INDIVIDUAL SHEET

(SKC) = 0

NOTE:

1- T2 = 32 WAY / T3 = 48 WAY

REVISED

ELC NO: G2009-0185

DRWNG: DESBRUERES 2008/12/10

CHKD: J. GIURIATO 2008/12/11

APPR: PLESSIS 2008/12/15

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± 0.10	± 0.004
3 PLACES	± 0.15	± 0.006
2 PLACES	± 0.20	± 0.008
1 PLACE	± 0.30	± 0.012
ANGULAR	± 2 °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY	DATE
G. DESBRUERES	2008/10/02
CHECKED BY	DATE
J. GIURIATO	2008/10/03
APPROVED BY	DATE
O. PLESSIS	2008/10/06
MATERIAL NO.	

N/A

SIZE A2

SCALE

1:1

DESIGN UNITS

METRIC

FIRST ANGLE PROJECTION

INTERFACES FOR MODULES

32 & 48 CKT CMC

GENERIC SALES DRAWING

MOLEX INCORPORATED

SD-98644-006

3 OF 3

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