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Part Number: [5031481290](#)
Status: **Active**
Description: 1.50mm (.059") Pitch CLIK-Mate™ Wire-to-Board PCB Receptacle, Dual Row, Right Angle, 12 Circuits

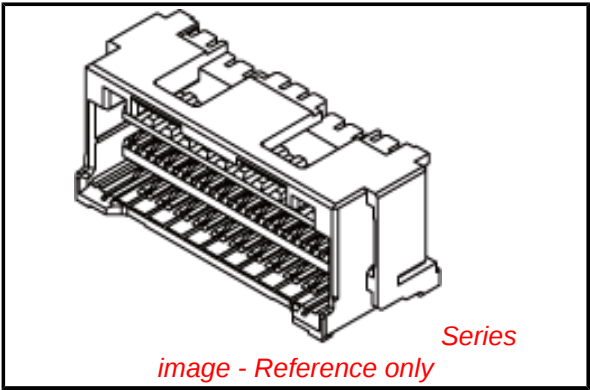
Documents:
[3D Model](#) [Product Specification PS-503148-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	PCB Receptacles
Series	503148
Application	Wire-to-Board
Product Name	CLIK-Mate™
Physical	
Circuits (Loaded)	12
Color - Resin	Beige
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Mated Height (in)	0.362 In
Mated Height (mm)	9.20 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Number of Rows	2
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.059 In
Pitch - Mating Interface (mm)	1.50 mm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical	
Current - Maximum per Contact	1A
Voltage - Maximum	100V

Material Info

Reference - Drawing Numbers	
Application Specification	AS-503149-001
Product Specification	PS-503148-001, RPS-503148-001
Sales Drawing	SD-503148-001, SD-503148-002



Series
image - Reference only

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

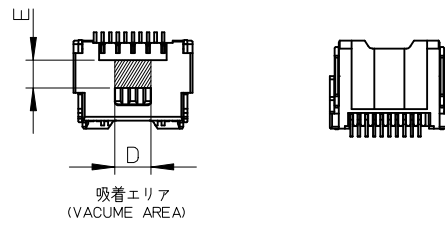
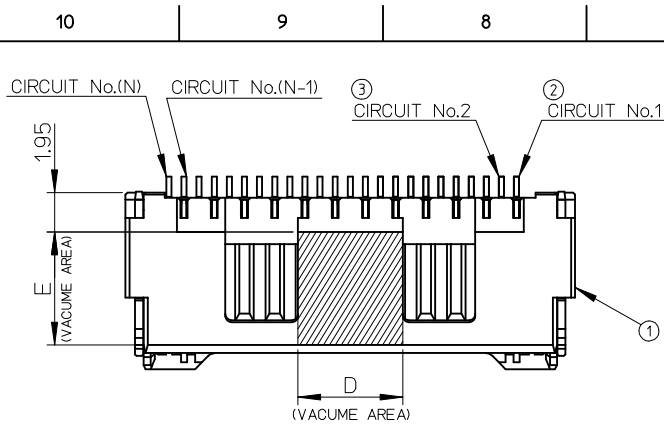
China RoHS



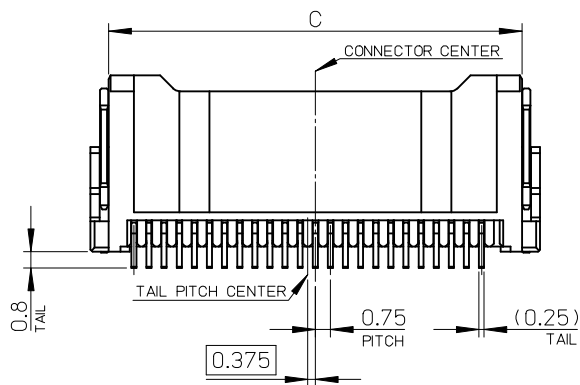
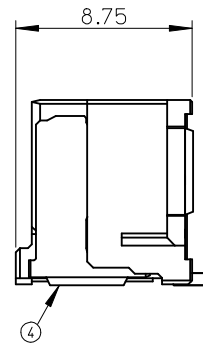
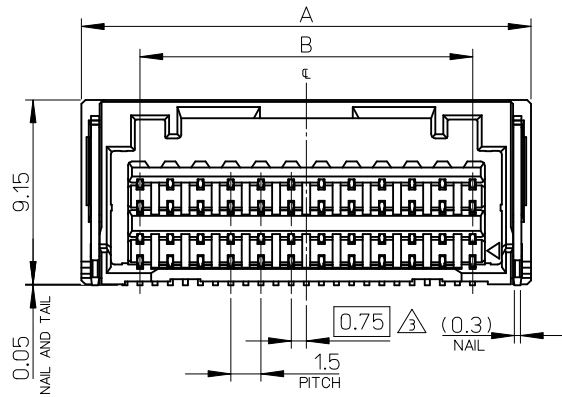
Need more information on product environmental compliance?
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[503148Series](#)

Mates With
[503149](#) Crimp Housing . [502579](#) Crimp Terminal

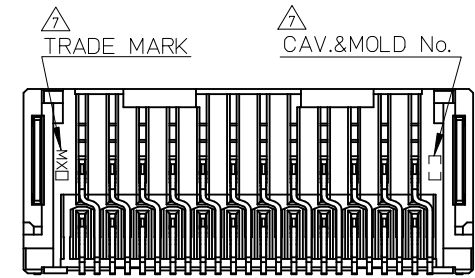


10極ハウジング形状
(HOUSING FORM OF 10CKT)
SCALE 2:1



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No.	PART	MATERIAL
①	HOUSING	耐熱性樹脂 UL94V-0 HEATPROOF RESIN UL94V-0
②	TERMINAL A	銅合金 COPPER ALLOY 錫メッキ : 1.0 micro-meter MIN. TIN
③	TERMINAL B	ニッケルメッキ (下地) : 1.0 micro-meter MIN. NICKEL (UNDER PLATING)
④	NAIL	銅合金 COPPER ALLOY 錫メッキ : 1.0 micro-meter MIN. TIN ニッケルメッキ (下地) : 1.0 micro-meter MIN. NICKEL (UNDER PLATING)



503148 - 249*	5.6	5.2	20.5	16.5	22.3	24
503148 - 209*	5.6	3.2	17.5	13.5	19.3	20
503148 - 169*	5.6	2.5	14.5	10.5	16.3	16
503148 - 129*	5.6	2.3	11.5	7.5	13.3	12
503148 - 109*	2.75	3.6	10	6	11.8	10
EMBOSSED TAPE PACKAGE	E	D	C	B	A	CIRCUIT
オーダー番号 ORDER No.						

REVISED EC NO: J2010-0024 DRWN: T HANYU CHKD: KASAKAWA APPR: NUKITA	2009/07/03 2009/07/05 2009/07/06	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			10 UNDER	±0.2	DRAWN BY T. HANYU	DATE 2007/11/2	TITLE 1.5 W/B CONN. DUAL R/A REC. ASSY				
			10 OVER 30 UNDER	±0.25	CHECKED BY K. ASAKAWA	DATE 2007/11/2					
			30 OVER	±0.3	APPROVED BY Y. ITO	DATE 2007/11/2	MOLEX INCORPORATED				
			ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503148-001		1 OF 3		
			REV	C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

NOTES

1. 嵌合相手: 503149-****
MATE WITH: 503149-****
2. 端子テール部及びネイルの平坦度: 0.1mm MAX.
TAIL AND NAIL COPLANARITY TO BE 0.1 MAX.

△3 (極数/2) = 偶数に適用
APPLY FOR (CIRCUIT SIZE/2) = EVEN

4. 端子テール部及びネイルに錫メッキを使用している為、
外観に摺動痕が付く場合があります。

△5 製品番号
MATERIAL No.

503148 - **9*

CIRCUIT SIZE 極数 色

COLOR	黒 BLACK	赤 RED	青 BLUE	緑 GREEN	ベージュ BEIGE (NATURAL)
COLOR No.	1	2	4	6	0

6. 本製品のプラスチック部に黒点・白点等が確認される場合や
色合いが異なる場合がありますが、製品性能に影響はありません。
THERE IS NO INFLUENCE IN THE PRODUCT
PERFORMANCE THOUGH THE BLACK AND WHITE SPOT ETC.
MIGHT BE CONFIRMED TO THE PLASTIC PART OF THIS PRODUCT AND
THE SHADE MIGHT BE DIFFERENT.

△7 トレードマーク: MXプラス1文字の製造工場を示すアルファベットにて表示
但し"J"はJAPANを示す。(例: MXJ)

キャビティ番号: 1桁から2桁の数字にて表示

金型番号: アルファベット1文字にて表示

FORMED BY MX AND 1 MORE LETTER OF ALPHABET WHICH MEAN THE MANUFACTORY.
BUT "J" MEANS JAPAN. (TO TRADE MARK) (e.g. MXJ)

AND BY 1 - 2 DIGIT NUMBER (TO CAVITY No.)

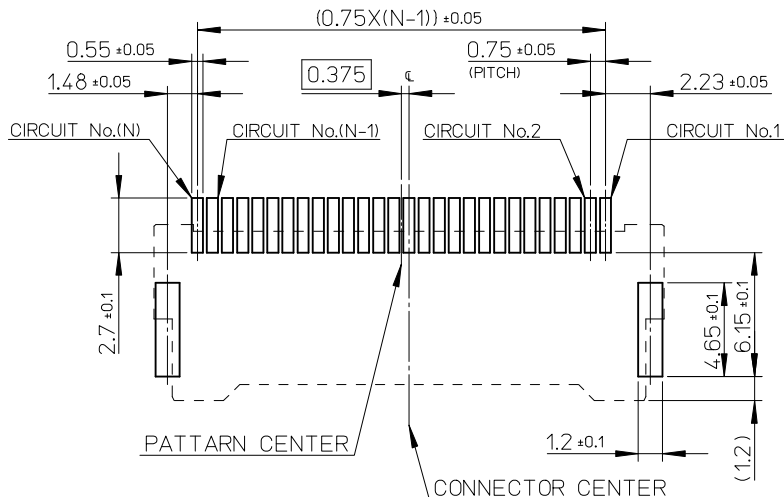
AND BY 1 LETTER OF ALPHABET (TO MOLD No.)

△8 コネクタ下にパターン及びスルーホールを設置する場合、基板面からのパターン盛り上がりは、0.1mm MAX.とする事。
但し、図示したパターン禁止エリアは除く。

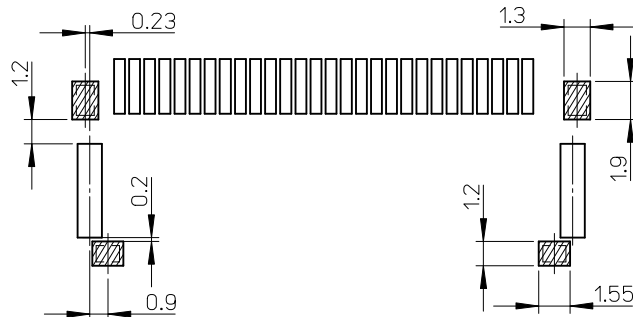
THE UPSURGE ON THE P.C.B.OARD SIDE TO BE 0.1mm MAX.
WHEN SET UP A PATTERN AND A THROUGH HALL UNDER THE CONNECTOR.

9. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT

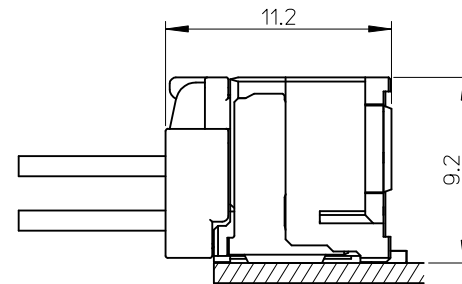
△10 オーダー番号及びコネクタシリーズ番号
ORDER No. AND CONNECTOR SERIES No.



パターンレイアウト (参考)
PATTERN LAYOUT (REF.)



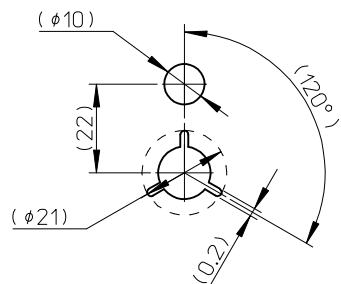
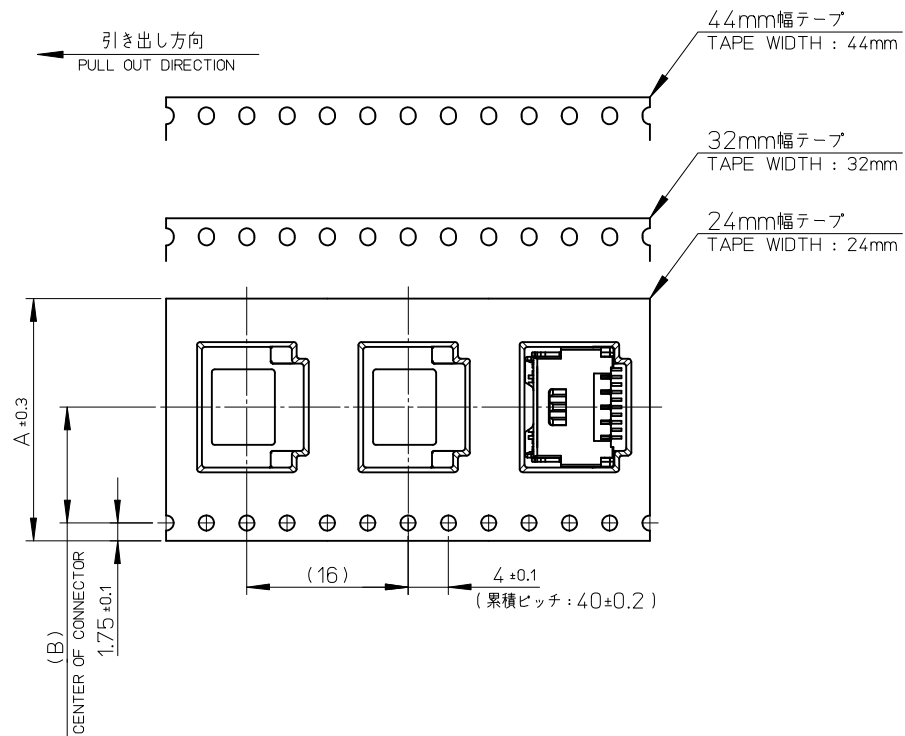
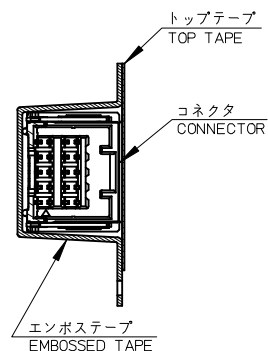
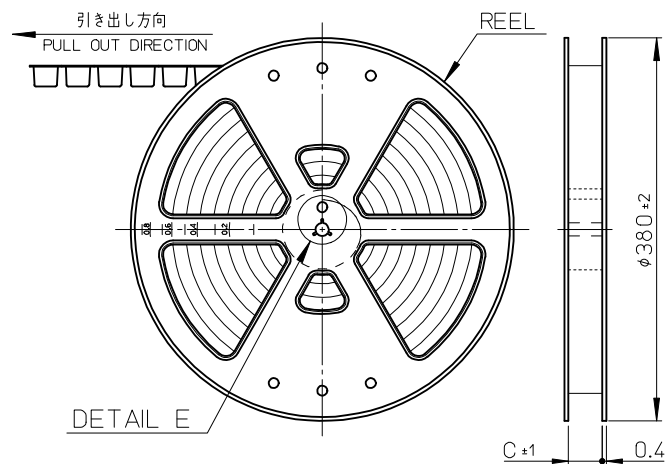
△8 パターン禁止エリア (参考)
PATTERN PROHIBITION AREA (REF.)



嵌合図
MATED CONNECTORES

REVISED EC NO: J2010-0024 DRWN:THANYU CHKD:KASAKAWA APPR:NUKITA	DESCRIPTION 2009/07/03 2009/07/05 2009/07/06	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY T. HANYU	DATE 2007/11/2	TITLE 1.5 W/B CONN. DUAL R/A REC. ASSY				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. ASAKAWA	DATE 2007/11/2					
		30 OVER	± 0.3	APPROVED BY Y.O. ITO	DATE 2007/11/2	MOLEX INCORPORATED				
		ANGULAR ±1 °	MATERIAL NO.							
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503148-001				2 OF 3
	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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45.5	20.2	44	503148-249*	24
45.5	20.2	44	503148-209*	20
33.5	14.2	32	503148-169*	16
33.5	14.2	32	503148-129*	12
25.5	11.5	24	503148-109*	10
C	B	エンボステープ幅 A WIDTH OF TAPE	△ 製品番号 MATERIAL No.	CIRCUIT No.

REVISED EC NO: J2009-2874 2009/06/22 DRWN: T.HANYU 2009/06/22 CHKD: KASAKAWA 2009/06/23 APPR: S.CHIKAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY T. HANYU	DATE 2007/11/26	TITLE EMBOSSED TAPE PACKAGE FOR 503148-****				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. ASAKAWA	DATE 2007/11/26					
		30 OVER	± 0.3	APPROVED BY Y.O. ITO	DATE 2007/11/26	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503148-002		1 OF 2			
A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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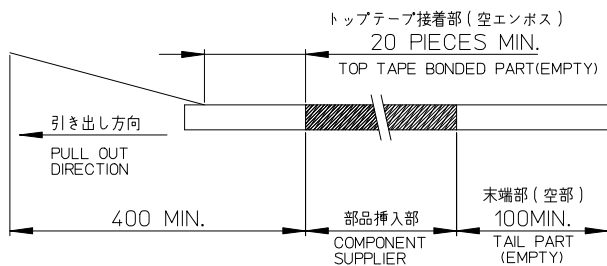
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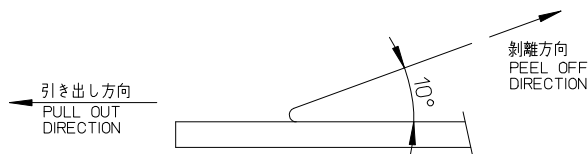
NOTE

1. 梱包数量 : 550個/リール
NUMBER OF CONNECTORS : 550 PIECES/REEL
2. リードテープ長さ
LEAD TAPE LENGTH



3. トップテープの剥離強度: 0.1~0.3 N (10.2~132.5gf)
剥離方向は下記参照。
PEELING OFF FORCE OF TOP TAPE
PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE.

尚、本規格は出荷時に適用。(但し、輸送時に剥離が発生しない事)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTION.



4. 製品詳細寸法については、SD-503148-001を参照して下さい。
PLEASE REFER TO SD-503148-001 FOR THE DETAILED
DIMENSION OF THE CONNECTOR.

5. MATERIAL No. AND CONNECTOR SERIES No.

	MATERIAL No.				
HOUSING COLOR CIRCUIT No.	黒 BLACK	赤 RED	青 BLUE	緑 GREEN	ベージュ BEIGE (NATURAL)
CIRCUIT No.24	503148-2491	503148-2492	503148-2494	503148-2496	503148-2490
CIRCUIT No.20	↑ 2091	↑ 2092	↑ 2094	↑ 2096	↑ 2090
CIRCUIT No.16	↓ 1691	↓ 1692	↓ 1694	↓ 1696	↓ 1690
CIRCUIT No.12	↓ 1291	↓ 1292	↓ 1294	↓ 1296	↓ 1290
CIRCUIT No.10	503148-1091	503148-1092	503148-1094	503148-1096	503148-1090
CONNECTOR SERIES No.	503148- **91	503148- **92	503148- **94	503148- **96	503148- **90

6. 材料
MATERIAL
キャリアテープ : ポリスチレン
CARRIER TAPE : POLYSTYRENE
トップテープ : ポリエステル、ポリエチレン、ポリエチレンテレフタレート
TOP TAPE : POLYESTER, POLYETHYLENE, POLYETHYLENE TEREPHTHALATE
リール : ポリスチレン (リサイクル材含む)
REEL : POLYSTYRENE (RECYCLE MATERIAL CONTAINED)
7. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT

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EN-02DA(021)

REVISED EC NO: J2009-2874 DRWN: T.HANYU CHKD: KASAKAWA APPR: SICHIKAWA REV A	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
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		ANGULAR ±1 °		MATERIAL NO. SEE CHART			DOCUMENT NO. SD-503148-002	
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				