

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878390011](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Vertical, Hybrid, with Straight Solder Tab, 3.00mm (.120") PCB
Thickness, Tray Packaging, with Cap, 29 Circuits, Lead free

Documents:
[3D Model](#) [Product Specification PS-87839-041 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

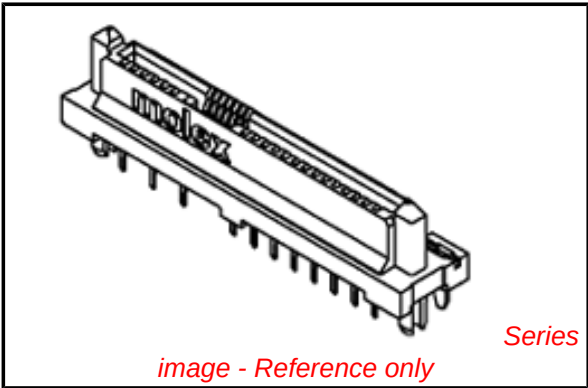
CSA LR19980
UL E29179

General

Product Family I/O Connectors
Series [87839](#)
Application Board-to-Board
Comments With pick and place cap
Component Type Receptacle
Product Name SAS
Type N/A

Physical

Boot Color N/A
Circuits (Loaded) 29
Circuits (maximum) 29
Circuits Detail Signal 7, SCSI 7, Power 15
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Gender Female
Keying to Mating Part Yes
Lock to Mating Part None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold, Tin
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PC Tail Length (in) 0.118 In, 0.137 In
PC Tail Length (mm) 2.99 mm, 3.49 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.120 In
PCB Thickness Recommended (mm) 3.00 mm
Packaging Type Tray
Panel Mount Yes
Pitch - Mating Interface (in) 0.031 In, 0.050 In
Pitch - Mating Interface (mm) 0.80 mm, 1.27 mm
Pitch - Term. Interface (in) 0.031 In, 0.050 In
Pitch - Term. Interface (mm) 0.80 mm, 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 102
Plating min: Termination (µm) 2.54



EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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
[87839Series](#)

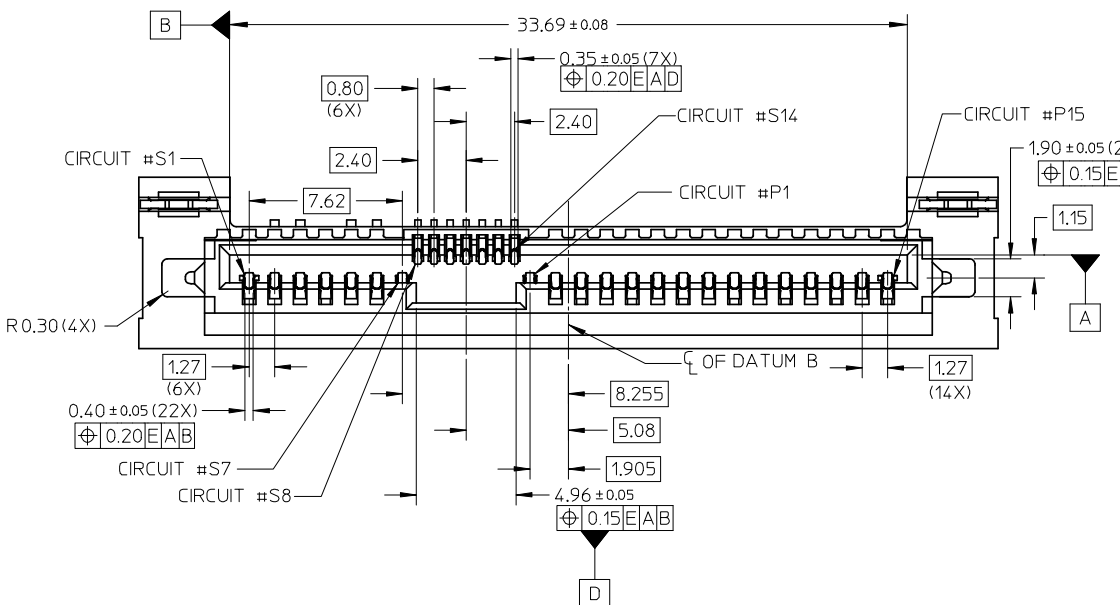
Mates With
Device Plugs [87679](#) , [87799](#) , [87703](#) , SFF
8482 Hard Disk Drive and Backplane Plug

Polarized to Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	0°C to +55°C
Termination Interface: Style	Surface Mount, Through Hole
Waterproof / Dustproof	No
Wire Size AWG	N/A
Electrical	
Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	30V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260
Material Info	
Reference - Drawing Numbers	
Product Specification	PS-87839-041
Sales Drawing	SD-87839-040

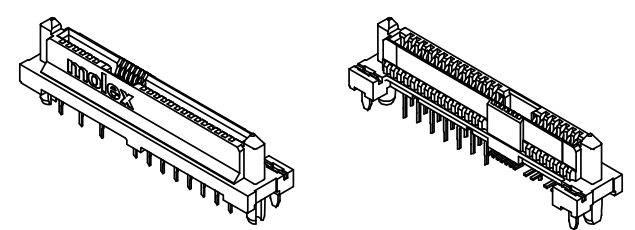
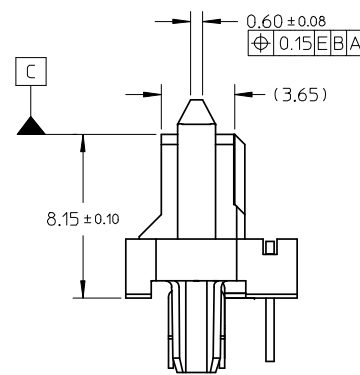
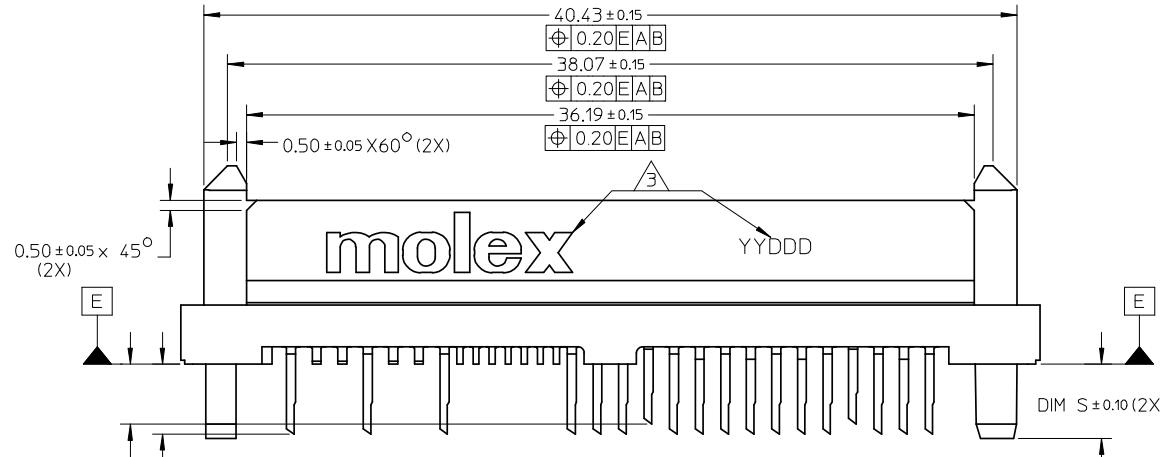
This document was generated on 04/09/2010

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10 9 8 7 6 5 4 3 2 1



- NOTES:
1. MATERIAL: LIQUID CRYSTALLINE POLYMER (LCP), GLASS FILLED, UL 94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
 2. PLATING:
CONTACT: 0.76μm MIN. SELECTIVE GOLD OVER 1.27μm MIN. NICKEL UNDERPLATE.
SOLDERTAIL: 2.54μm MIN. TIN OVER 1.27 μm MIN. NICKEL UNDERPLATE.
 3. MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.
 4. PACKAGING: SEE TABLE
 5. PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.
 6. PRODUCT SPECIFICATION PS-87839-041 APPLIES.
 7. MATES WITH: SFF-8482 PLUG
SATA PLUG SERIES: 87679, 87703, 87799



UPDATE DRAWING EC NO: S2008-0663 2008/02/14 DRWN:KLLIM 2008/02/15 CHKD:CGOH 2008/02/18 APPR:KCLING A6	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◁=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					DRAWN BY DKOH	DATE 2004/11/23	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT MOLEX INCORPORATED SD-87839-040				
					CHECKED BY KCLING	DATE 2004/12/01					
					APPROVED BY SKTOH	DATE 2004/12/01					
					MATERIAL NO.						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

F

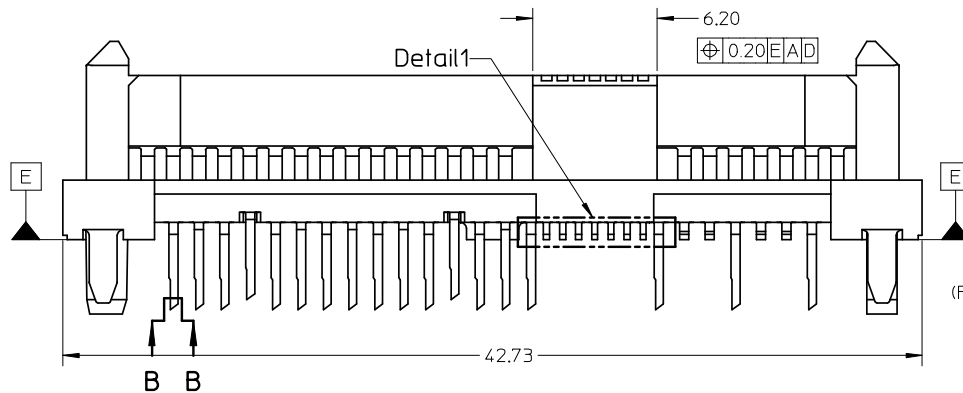
E

D

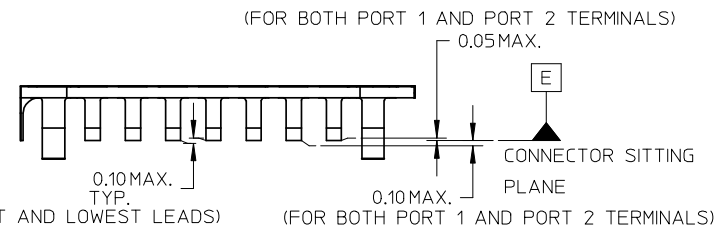
C

B

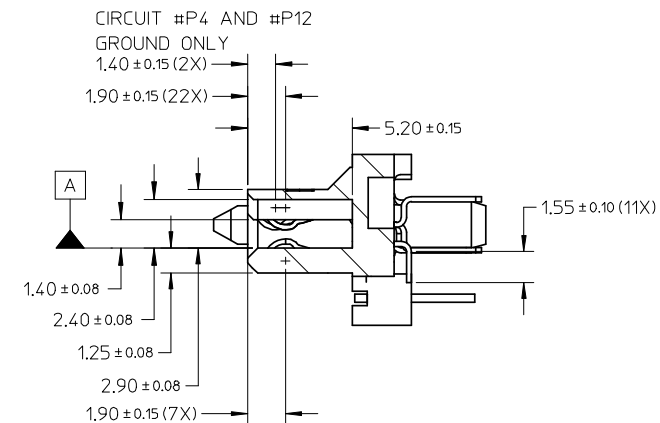
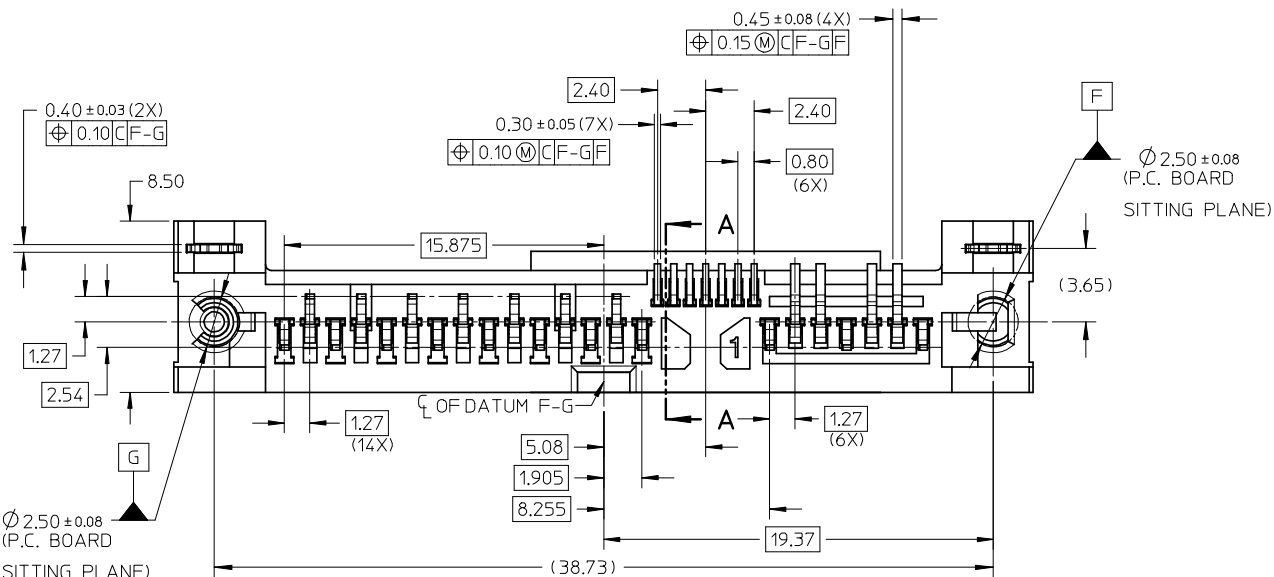
A



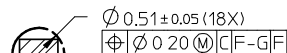
(BETWEEN HIGHEST AND LOWEST LEADS)
(FOR BOTH PORT 1 AND PORT 2 TERMINALS)



Detail1



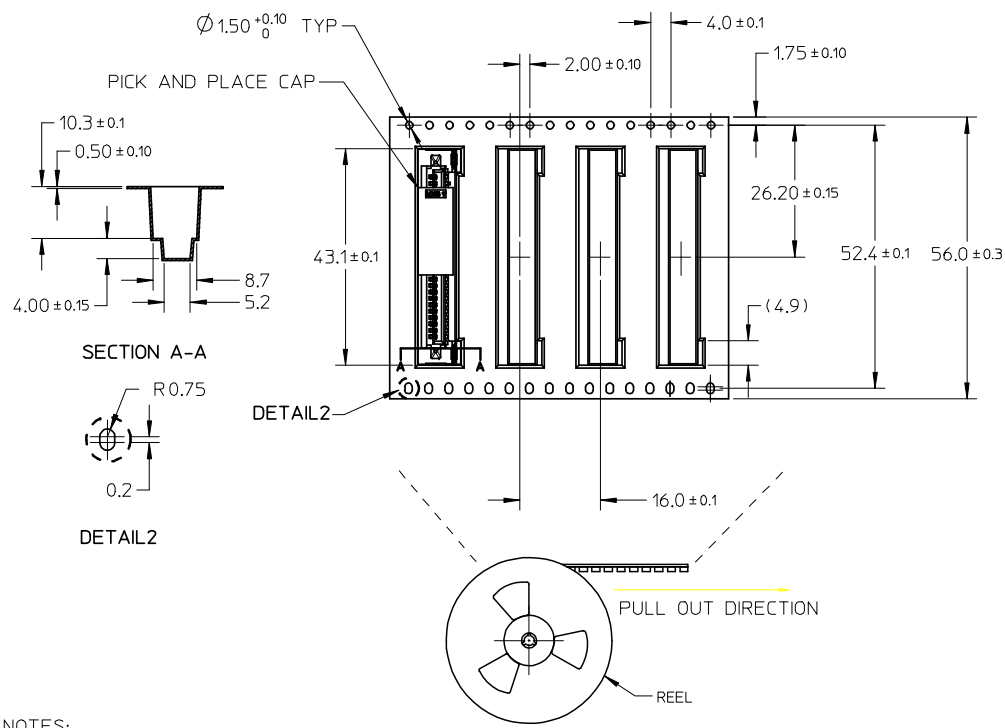
SECTION A-A



SECTION B-B

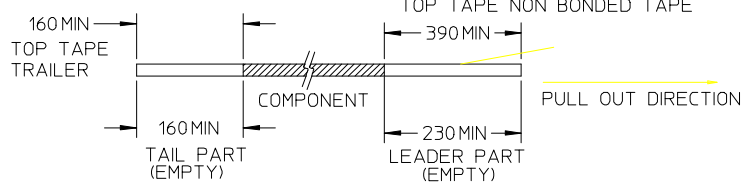
UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CHKD:CGOH APPR:KCLING REV A6	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY DKOH	DATE 2004/11/23	TITLE SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT  MOLEX INCORPORATED		
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2004/12/01			
			3 PLACES	± ---	± ---					
			2 PLACES	± 0.20	± ---					
			1 PLACE	± ---	± ---	APPROVED BY SKTOH	DATE 2004/12/01			
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO. 2 OF 4
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87839-040			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

TAPE AND REEL PACKAGING

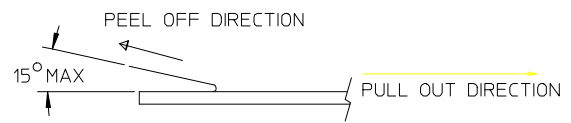


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 80gf MAX.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)

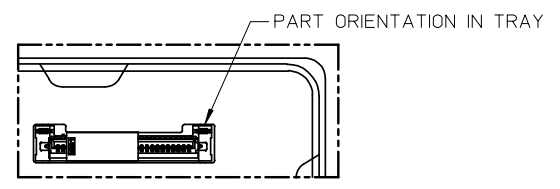
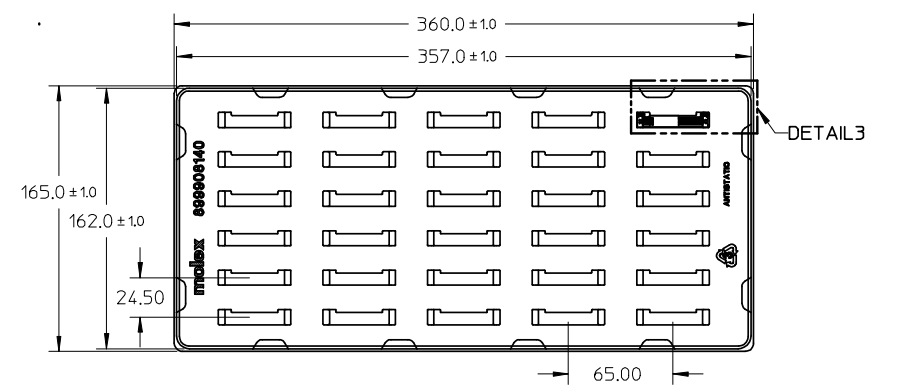


3. PACKAGING QTY IS: 350 PCS/REEL

4. PACKAING STANDARD IS AS PER EIA-481.

5. CONNECTOR COMES WITH PICK AND PLACE CAP.

TRAY PACKAGING



DETAIL3

NOTES:

1. PACKAGING QTY: 30PCS/TRAY
2. NO PICK AND PLACE CAP

UPDATE DRAWING EC NO: S2008-0663 DRW:KHLIM CH'D:CGOH APPR:KCLING 2008/02/14 2008/02/15 2008/02/18		DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
						mm	INCH	DRAWN BY DATE	TITLE	SERIAL ATTACH SCSI RECEPTACLE, HYBRID STANDARD HEIGHT MOLEX MOLEX INCORPORATED				
					4 PLACES	± ---	± ---	DKOH 2004/11/23						
					3 PLACES	± ---	± ---	CHECKED BY DATE						
					2 PLACES	± 0.20	± ---	KCLING 2004/12/01						
				1 PLACE	± ---	± ---	APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
				ANGULAR ± 3 °		SKTOH 2004/12/01								
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87839-040			SHEET NO. 4 OF 4			
A6							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						