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Part Number: [0877011001](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Press-fit, Vertical, Standard Height, 0.76µm (30µ") Gold (Au) Selective, 22 Circuits, Leadfree

Documents:

3D Model	Product Specification PS-87701-033 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	87701
Application	Board-to-Board
Product Literature Order No	SNG-029
Product Name	Serial ATA

Physical

Circuits (Loaded)	22
Circuits Detail	Power 15 pins Signal 7 pins
Durability (mating cycles max)	500
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Copper
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.136 In
PC Tail Length (mm)	3.45 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.060 In, 0.062 In, 0.070 In, 0.075 In, 0.080 In
PCB Thickness Recommended (mm)	1.50 mm, 1.60 mm, 1.80 mm, 1.90 mm, 2.00 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

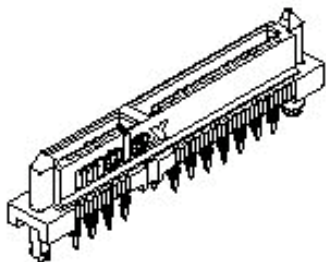
Electrical

Current - Maximum per Contact	1.5A
Voltage - Maximum	30V

Material Info

Reference - Drawing Numbers

Product Specification	PS-87701-033
Sales Drawing	SD-87701-013



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

**Contains SVHC: No
Halogen-Free**

Status

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

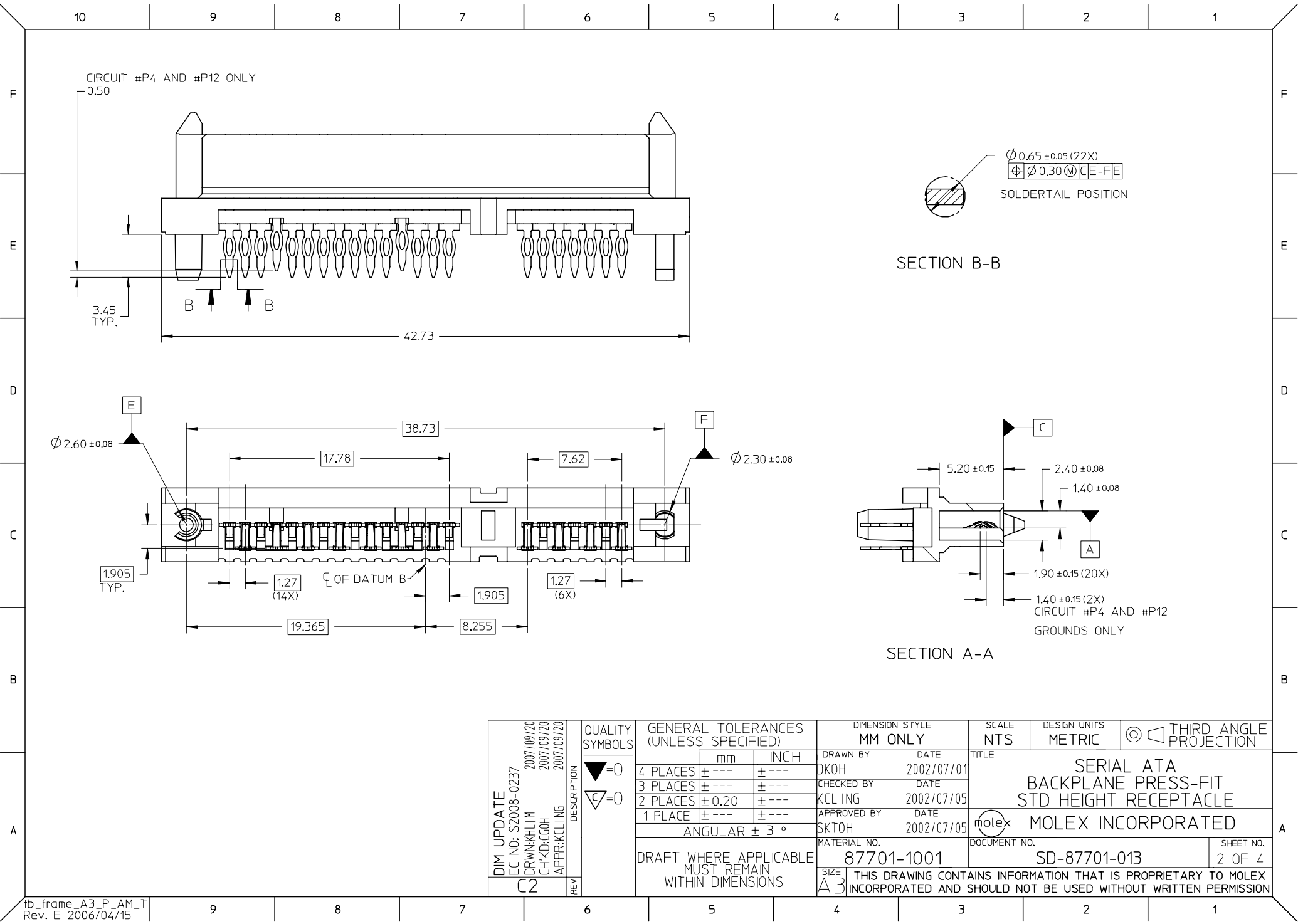
[87701Series](#)

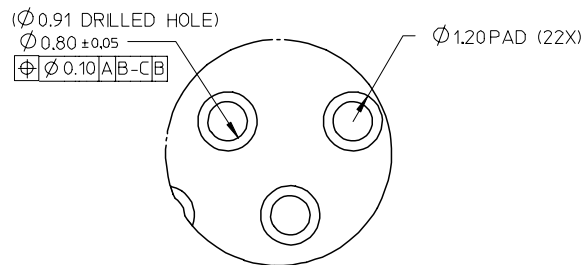
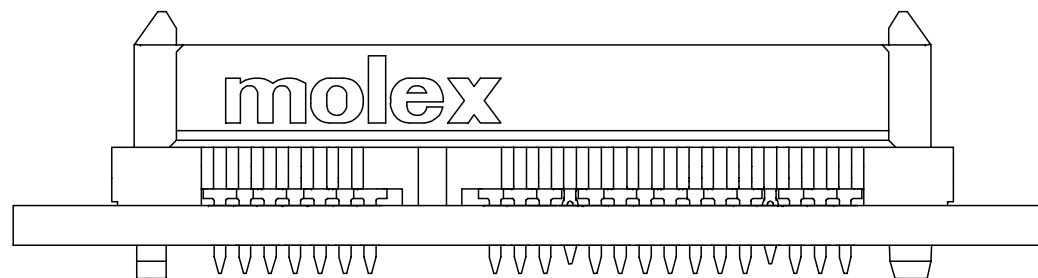
Mates With

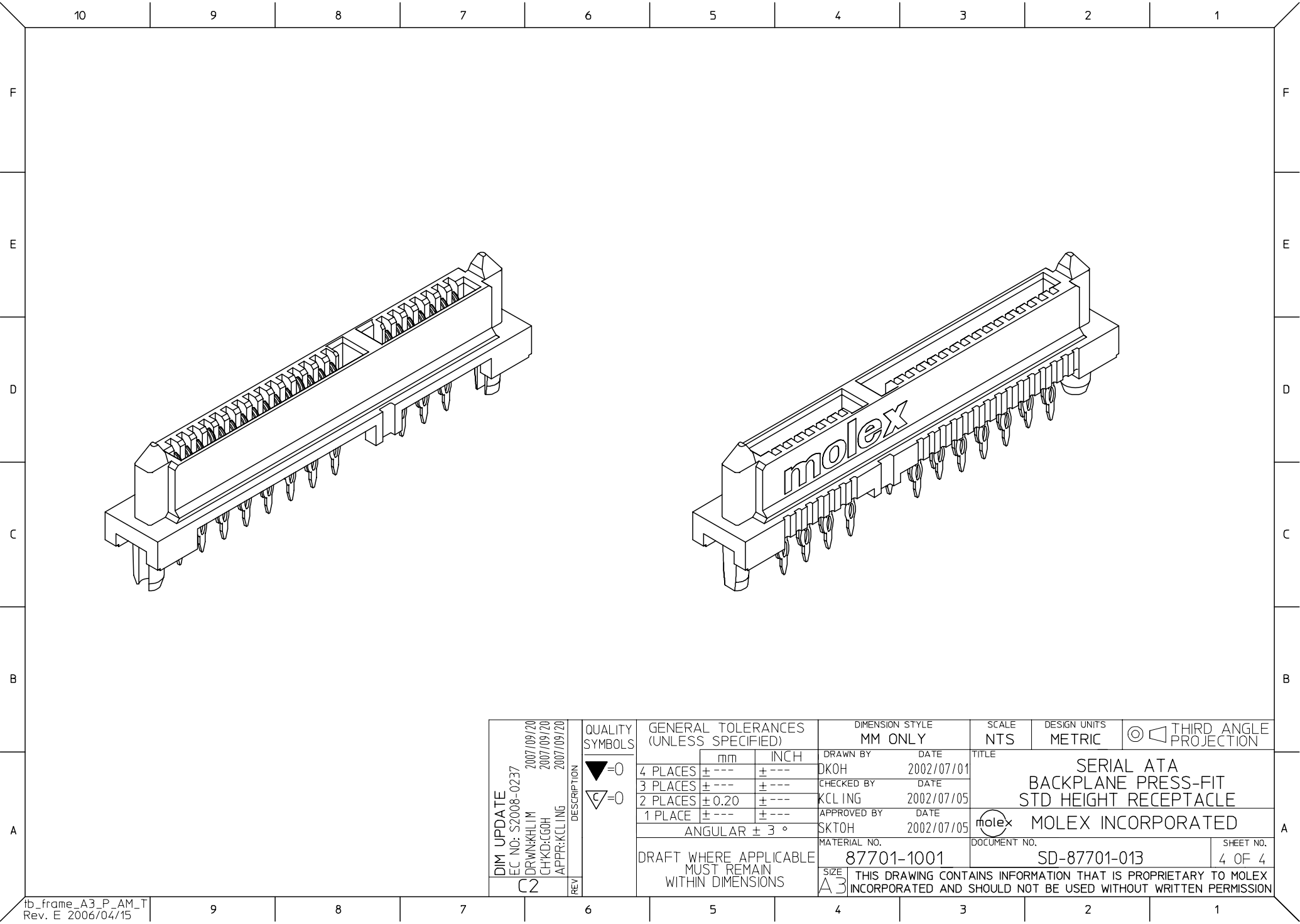
[87679](#) , [87799](#) , [87703](#)

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DIM UPDATE EC NO: S2008-0237 2007/09/20 DRWN:KHLIM CHKD:CGOH 2007/09/20 APPR:KCLING 2007/09/20 C2	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		▽=0 ▽=0		mm	INCH	DRAWN BY	DATE	TITLE SERIAL ATA BACKPLANE PRESS-FIT STD HEIGHT RECEPTACLE			
			4 PLACES	± ---	± ---	DKOH	2002/07/01				
			3 PLACES	± ---	± ---	CHECKED BY	DATE				
			2 PLACES	± 0.20	± ---	KCLING	2002/07/05	MOLEX MOLEX INCORPORATED			
			1 PLACE	± 0.20	± ---	APPROVED BY	DATE				
		ANGULAR ± 3 °		SKTOH	2002/07/05	DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 87701-1001		SD-87701-013		4 OF 4			
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					