

# RoHS Certificate of Compliance for Intellitouch Screens (Excluding Super Flat Profile Screens)

**TITLE:** RoHS Certificate of Compliance for IntelliTouch Screens  
(Excluding Super Flat Profile Screens)

**NUMBER:** ES500310

**REVISION:** E



### Change History

Rev.	Description of Change	Release Date	Changed By
<b>A</b>	Released per ECO 4924	05/18/05	Kevin Seitz
<b>B</b>	Revised per ECO 4957. Delete the acronym "Flipper" from document title and replace it with "Super Flat Profile Screens".	06/06/05	Kevin Seitz
<b>C</b>	Revised per ECO 5009. Delete the acronym "Flipper" from section 1.0 and replace it with "Super Flat Profile".	07/11/05	Kevin Seitz
<b>D</b>	Revised per ECO 5443. Change document format by removing the change history and table of contents from the cover page and placing them on the next page. Section 2.0: change the word biphenyl to Diphenyl. Under solder, in the comments section, add the word "unintentional" for lead. Page 4: remove "prepared by" and individuals name, and include title and company name under approver.	11/4/05	Kevin Seitz
<b>E</b>	Revised per ECO 07-16506. Add <b>China RoHS requirements</b> (Tic-Tac-Toe <b>HazMat chart and EPUP</b> )	06/14/07	Leo Alejandro

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## 1.0 PURPOSE

This document certifies that all IntelliTouch screens with the exception of the IntelliTouch Super Flat Profile screens, are in compliance with:

- Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directives), as well as in regards to Directive 91/338/EEC (Cadmium) and Directive 2003/11/EC (PBB's/PBDE's). These products may contain an exempted material as noted in the Annex of the RoHS Directive.
- China RoHS Compliance

## 2.0 CERTIFICATE OF ANALYSIS INFORMATION

<b>Material: Cable Wire &amp; Shielding</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	<5	
Chromium (VI)	ppm	<10	
Lead	ppm	<100	
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: Transducers</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	>1000	Exempt: ceramic piezoelectronic device
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: Glass</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	<1000	Exempt: lead in glass
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: UV Ink</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	ND	
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: Glass Frit</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	>1000	Exempt: lead in glass frit
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: UV Gel</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	ND	
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

<b>Material: Solder</b>			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	ND	
Lead	ppm	<100	Unintentional
Mercury	ppm	ND	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

**ND = Not Detected**  
**PPM= Parts Per Million**

<b>Test Methods:</b>			
<u>Test Item</u>	<u>Method</u>	<u>MDL</u>	<u>RoHS Limit (PPM)</u>
Cadmium	ICP-AES per EN1122, method B:2001 or other acid digestion	2	100
Chromium (VI)	As per US EPA 7196A and US EPA 3060A	2	1000
Lead	ICP-AES per US EPA 3050B or other acid digestion	2	1000
Mercury	ICP-AES per US EPA 3052 or other acid digestion	2	1000
Polybrominated diphenyl ethers	USEPA 3540 or USEPA 3550 Analysis done by HPLC/DAD, LC/MS or GC/MS	0.0005	1000
Polybrominated biphenyls	USEPA 3540 or USEPA 3550 Analysis done by HPLC/DAD, LC/MS or GC/MS	0.0005	1000

**MDL = Method Detection Limit**

### 3.0 RoHS IDENTIFICATION AND LABELING

All products mentioned above are RoHS compliant and are shipped with the label shown below attached to the shipping carton.

**Directive 2002/95/EC  
(RoHS) Compliant**

### 4.0 CHINA ROHS INFORMATION

#### TIC-TAC-TOE (HAZMAT) CHART

	檢測項目					
	Test Item					
材料	鎘 (Cd)	鉻 (Cr)	鉛 (Pb)	汞 (Hg)	多溴聯苯醚 (PBDE)	多溴化聯苯 (PBB)
Material	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Mercury (Hg)	Polybrominated diphenyl ethers (PBDE)	Polybrominated biphenyls (PBB)
電纜心線和遮罩線 CABLE WIRE AND SHIELDING	X	X	X	O	O	O
變頻器 TRANSDUCERS	O	O	X	O	O	O
玻璃 GLASS	X	O	X	X	O	O
UV 油墨 UV INK	O	O	O	O	O	O
玻璃原料 GLASS FRIT	O	O	X	O	O	O
UV 凝膠 UV GEL	O	O	O	O	O	O
焊料 SOLDER	O	O	X	O	O	O
網格中的「O」表示材料類別中不存在此成分 "O" in grid indicates this substance does not exist in the material category						
網格中的「X」表示材料類別中存在此成分 (含有某種數量) "X" in grid indicates this substance exists (in any quantity) in the material category						

#### APPLICABLE EPUP SYMBOL





## **5.0 DISCLAIMER**

Users are advised to ensure that this information is brought to the attention of the employees, agents, or contractors handling this product. Distributors of this product are advised to forward this document, or the information contained herein, to their purchaser. Tyco Electronics' obligations shall be only as set forth in Tyco Electronics' standard terms and conditions of sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of Tyco Electronics products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures.

I hereby certify that this Certificate of Compliance is accurate.

Dan Zahnow  
Global RoHS/WEEE Coordinator  
Elo TouchSystems (a division of Tyco Electronics Corporation)