



RoHS Certificate of Compliance for Acoustic Pulse Recognition (APR) Screens

TITLE: RoHS Certificate of Compliance for APR Screens

NUMBER: ES600520

REVISION: A



Change History

Rev.	Description of Change	Release Date	Changed By
A	Initial release per ECO 07-028857	12/05/07	Leo Alejandro

TABLE OF CONTENTS

1.0 PURPOSE 3

2.0 CERTIFICATE OF ANALYSIS INFORMATION 3

3.0 HAZARDOUS MATERIAL CHART (TIC-TAC-TOE CHART) 4

4.0 RoHS IDENTIFICATION AND LABELING 4

5.0 DISCLAIMER 6

1.0 PURPOSE

This document certifies that all Acoustic Pulse Recognition (APR) 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

Material: Cable Assembly			
<u>Test Item</u>	<u>Units</u>	<u>Result</u>	<u>Comments</u>
Cadmium	ppm	ND	
Chromium (VI)	ppm	100	
Lead	ppm	ND	
Mercury	ppm	400	
Polybrominated diphenyl ethers	ppm	ND	
Polybrominated biphenyls	ppm	ND	

Material: APR Glass			
<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	

Material: Piezo			
<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	

Material: Solder			
<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	

Material: UV Adhesive			
<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	

ND = Not Detected

PPM= Parts Per Million

Test Methods:			
<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



APR Test Report

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

APR APR	檢測項目 TEST ITEM					
材料 Material	鎘 Cadmium	鉻 Chromium (IV)	鉛 Lead	汞 Mercury	多溴聯苯醚 Polybrominated diphenyl ethers	多溴化聯苯 Polybrominated biphenyls
電纜元件 CABLE ASSEMBLY	X	0	X	0	X	X
壓電材料 PIEZO	X	X	0	X	X	X
APR 玻璃 APR GLASS	X	X	0	X	X	X
焊料 SOLDER	X	X	0	X	X	X
UV 黏合劑 UV ADHESIVE	X	X	X	X	X	X
<p>網格中的「X」表示材料類別中不存在此成分 "X" in grid indicates this substance does not exist in the material category</p> <p>網格中的「0」表示材料類別中存在此成分（含有某種數量） "0" in grid indicates this substance exist (any quantity) in the material category</p>						

APPLICABLE EPUP SYMBOL





5.0 DISCLAIMER

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I hereby certify that this Certificate of Compliance is accurate.

Masood Abrishamcar

December 5, 2007

Global RoHS/WEEE Coordinator

Elo TouchSystems (a division of Tyco Electronics Corporation)