

TECHNICAL BRIEF

BY: AZD ENGINEERING



RoHS

RoHS abbreviation stands for Restriction of Hazardous Substances. With environmental concerns of global proportions, RoHS guidelines have become a focus for many manufacturers in the electronic industry. AZ Displays Inc, as a producer of liquid crystal modules follows those guidelines by developing nature-friendly versions of its standard products. Even though such complex items as NTSC decoder boards (for our TFT LCDs) had to be almost completely re-populated with new components, AZ Displays now offers a number of fully RoHS compliant TFT parts.

RoHS Directive

RoHS originates partly from the European Directive 2002/95/EC. Under these rules the Directive states that any electrical and electronic equipment (EEE) must not contain a total of 6 hazardous elements. This means that these elements cannot exceed the maximum concentration values (MCV) in any homogeneous material.

In order for any piece of electrical and electronic equipment to be RoHS compliant, they must meet the following substance requirements:



Element	Symbol	Maximum concentration percentage value by weight
Lead	Pb	0.1%
Mercury	Hg	0.1%
Cadmium	Cd	0.01%
Hexavalent Chromium	Cr(VI)	0.1%
Polybrominated biphenyls	PBB	0.1%
Polybrominated diphenyl ethers	PBDE	0.1%

New Releases

With the RoHS dictated rules soon to be in effect, AZ Displays has already taken steps forward with its research and development department to develop new RoHS compliant TFT-related display components. AZ Displays now can accept mass production orders for the following complete TFT package: 5.0" analog TFT panel (new p/n PA050XS1-LF) with NTSC decoder board (new p/n LD05012PS0-FDR), interface cable (new p/n A09WC1-151600R) and a suitable mounting bracket (new p/n A20CX1-050000R). The package components may also be purchased separately. Other RoHS-compliant packages will soon be announced when they become available (a package of 3.5" analog TFT panel, new p/n PA035XUJ-LF, with NTSC decoder board and interface cable are under development).