

Background of Environment friendly Products

EU declared RoHS law to restrict the using of six hazardous substances . (February, 2003)
(Pb, Cd, Cr⁶⁺, Hg, PBBs, PBDEs)

Laws	Contents	Enforcement date
RoHS	The using restriction of six hazardous substances. (Pb, Cd, Cr ⁶⁺ , Hg, PBB, PBDE)	July 1, 2006
WEEE	Rstriction of Recovery/Recycle rate	January 1 ,2007
EuE	Environmental Friendly Design	Enacting

► RoHS : Restriction of Hazardous Substances


► WEEE : Waste Electrical and Electronic Equipment

► EuE : Ecodesign of End Use Equipment

► PBDE : Polybrominated diphenyl ether

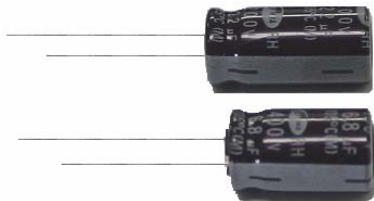





► PBB : Polybrominated biphenyl

SAMWHA & SET maker specification of six restricted substances

Substance	Management specification			SAMWHA
	Eu RoHs	SONY	 삼성전자	
Cadmium(Cd)	Less than 75ppm	Less than 5ppm	Less than 10ppm	Less than 5ppm
Lead(Pb)	Less than 1,000ppm	Less than 100ppm	Less than 100ppm	Less than 100ppm
Mercury(Hg)	Less than 1,000ppm	Less than 100ppm	Less than 100ppm	Less than 100ppm
Hexavalent chrome(Cr⁺⁶)	Less than 1,000ppm	Less than 100ppm	Less than 100ppm	Less than 100ppm
Brominated flame retardants (PBB / PBDEs)	Less than 1,000ppm	Less than 100ppm	Less than 100ppm	Less than 100ppm

Our products are conversing to capacitors that have no polyvinyl chlorides in their sleeve material (PVC-less),
Whenever you demand to our company, we can cope with that.

Lead Free Capacitor(terminal plating & soldering heat resistance)

<u>Miniature Al electrolytic Cap.</u> 	<u>Heat resistance</u> Recommended flow soldering Condition: 260℃, 10 sec Max.	<u>Terminal plating</u> $\text{Sn} + \text{Pb} \rightarrow \text{Sn } 100\%$ Changed plating from March. 1, 2000	<u>Lead free</u> <u>Label marking</u> 
<u>Large Al electrolytic Cap.</u> (Snap-in type) 	<u>Heat resistance</u> Recommended flow soldering Condition: 260℃, 10 sec Max.	<u>Terminal plating</u> $\text{Sn} + \text{Pb} \rightarrow \text{Sn } 100\%$ Changed plating from July. 1, 2003	<u>Inner box</u> 
<u>SMD type</u> 	<u>Heat resistance</u> Recommended reflow soldering Condition: 250℃, 10 sec Max.	<u>Terminal plating</u> $\text{Sn} + \text{Pb} \rightarrow \text{Sn } 100\%$ Changed plating from March. 1, 2000	<u>Middle box</u> 

※ Our products is not contained the Lead(Pb) from terminals & PVC sleeve.

Road map of Environment Friendly Products & Status

