



BROADCOM CORPORATION
5300 California Avenue
Irvine, CA 92617
Phone: 949-926-5000
Fax: 949-926-5203

To: Broadcom Customer

Subject: Broadcom chips (*_*) compliance to Restrictions on Green Substances

Dear Customer:

In order to safeguard public health and protect environment from contamination per hazardous substances, Broadcom has set up EMS and adopted GREEN Initiatives that are conformed to The European Union RoHS Directive [2002/95/EC](#) and International Electronics Committee Halogen-free Guideline [IEC61249-2-21](#). Broadcom has further implemented the Initiative in late 2007 by planning a road map for GREEN Packages to eventually phase out hazardous substances listed in major industrial specifications such as JIG101, IPC1752, SONY-SS00259 and the ultimate [EC1907-2006 REACH](#).

Broadcom continues monitoring the progress on the GREEN issues industry wide, particularly in term of the final list of Substances of Very High Concerned (SVHC) in [REACH](#). At present, we are declaring to the best of our knowledge and assisted by third party reports and/or suppliers' analysis data that BRCM chips listed below meet conditions set in the appended table:

BROADCOM IC List (*_*)	IC Package Description
Broadcom Pb-free and Halogen Free BGA	FBGA,PBGA(+HS),FCBGA(+HS)
Broadcom Pb-free and HF Lead frames	QFN,QFP,SOIC
Broadcom Pb-free Wafer level	WLBGA,WLCSP

Please let us know if you have any further questions regarding this declaration.

Sincerely,

Broadcom Corporate Quality Assurance, 2009

Category	Substance	Spec limit ppm	Compliance(*y/n)	Usage/Position
ROHS	Lead(Pb)	1000	y	
	Cadmium(Cd)	100	y	
	Mercury(Hg)	1000	y	
	Chromium(Cr6)	1000	y	
	PBB	1000	y	
	PBDE	1000	y	
GREEN	Bromine(Br)	900	y	
	Chlorine(Cl)	900	y	
	Br + Cl	1500	y	
OTHERS	Arsenic (As)	1000	y	
	Fluorine(F)	1000	y	
	Iodine (I)	1000	y	
	Sb or Sb2O3	750	y	
	Phosphorus(P)	1000	y	
	Other Halogen compound than PBB/PBDE	1000	y	
	(ODC)Ozone Depleting Chemicals	1	y	
	Polyvinyl chloride(PVC)	1000	y	
	Phthalates	1000	y	
	Nickel(Skin Contact)	1000	y	
	PFOS/PFOA	1000	y	
	TPPB-A	1000	y	

*y=> Maximum Concentration Value < Spec limit ; *n=> show MVC in ppm*(mg/kg)