

#### RESTRICTION OF HAZARDOUS SUBSTANCES & END OF LIFE-VEHICLE:

The European Union (EU) is introducing new legislation that will affect the electronics industry. The coming RoHS directive (Restriction of Hazardous Substances) will ban six materials from use. By 1<sup>st</sup> January 2006, Member States of the European Union shall ensure that new electrical and electronic equipment's put on the market do not contain <u>lead (Pb)</u>, <u>mercury (Hg)</u>, <u>cadmium (Cd)</u>, <u>hexavalent chromium (Cr<sup>±6</sup>)</u>, <u>polybrominated biphenyls (PBBs)</u>, and/or <u>polybrominated diphenyl ethers (PBDEs)</u>.

#### **Rohs/ELV Compliant Chip resistors product list**

Product	Series	Six Ha	zardous S	ubstance	S			Others
Group		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)
Chip Resistors	RC	0	0	0	0	0	0	0
	YC/TC	0	0	0	0	0	0	0
	RT/RJ	0	0	0	0	0	0	0
	RL	0	0	0	0	0	0	0
	AR	0	0	0	0	0	0	0
	TR	0	0	0	0	0	0	0
	SR	0	0	0	0	0	0	0
	PF/PH	0	0	0	0	0	0	0
	RV	0	0	0	0	0	0	0
	PR	0	0	0	0	0	0	0
	RE	0	0	0	0	0	0	0
	AF	0	0	0	0	0	0	0
	PT	0	0	0	0	0	0	0
	ATV	0	0	0	0	0	0	0



#### **RoHS/ELV COMPLIANT MLCC PRODUCT LIST**

O: RoHS/ELV Compliant; X: Non RoHS/ELV Compliant

Product	Series	Six Hazardous Substances Othe							
Group		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)	
MLCC	CC	0	0	0	0	0	0	0	
	СН	0	0	0	0	0	0	0	
	СМ	0	0	0	0	0	0	0	
	CL	0	0	0	0	0	0	0	
	SC	0	0	0	0	0	0	0	
	СХ	0	0	0	0	0	0	0	
	CA	0	0	0	0	0	0	0	

### **RoHS/ELV COMPLIANT MLV PRODUCT LIST**

O: RoHS/ELV Compliant; X: Non RoHS/ELV Compliant

Product Group	Series	Six Hazardous Substances						
		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)
MLV	VR	0	0	0	0	0	0	0

### **RoHS/ELV COMPLIANT HF PRODUCT LIST**

Product Group	Series	Six Ha	zardous S	ubstance	s			Others
		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)
HF product	Metal antenna	0	0	0	0	0	0	0
	Chip/Patch/ Active antenna	0	0	0	0	0	0	0
	RF components	0	0	0	0	0	0	0



#### **ROHS/ELV COMPLIANT LEADED RESISTOR PRODUCT LIST**

Product	Series	Six Hazardous Substances Others							
Group		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)	
Leaded R	MFR	0	0	0	0	0	0	0	
	MFP	0	0	0	0	0	0	0	
	MHP	0	0	0	0	0	0	0	
	MF0	0	0	0	0	0	0	0	
	FMF	0	0	0	0	0	0	0	
	FM0	0	0	0	0	0	0	0	
	FMP	0	0	0	0	0	0	0	
	RSF	0	0	0	0	0	0	0	
	LIR	0	0	0	0	0	0	0	
	FRM	0	0	0	0	0	0	0	
	MMF	0	0	0	0	0	0	0	
	MMP	0	0	0	0	0	0	0	
	CFR	0	0	0	0	0	0	0	
	CF0	0	0	0	0	0	0	0	
	FCR	0	0	0	0	0	0	0	
	FC0	0	0	0	0	0	0	0	
	NCR	0	0	0	0	0	0	0	
	MCF	0	0	0	0	0	0	0	
	MCP	0	0	0	0	0	0	0	
	HHV	0	0	0	0	0	0	0	
	APR	0	0	0	0	0	0	0	
	HTR / HTM	0	0	0	0	0	0	0	
	CFN	0	0	0	0	0	0	0	
	MFN	0	0	0	0	0	0	0	
	ZOR	0	0	0	0	0	0	0	
	JPW	0	0	0	0		0		



Product	Series	Six Ha	zardous S	Substance	s			Others
Group		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)
Leaded R	KNP	0	0	0	0	0	0	0
	NKN	0	0	0	0	0	0	0
	FKN	0	0	0	0	0	0	0
	PNP	0	0	0	0	0	0	0
	SQP / NSP	0	0	0	0	0	0	0
	SQM / NSM	0	0	0	0	0	0	0
	SQZ / NSZ	0	0	0	0	0	0	0
	PSP	0	0	0	0	0	0	0
	PSM	0	0	0	0	0	0	0
	FTR	0	0	0	0	0	0	0
	SLR	0	0	0	0	0	0	0
	AHA / AHP	0	0	0	0	0	0	0



#### YAGEO RoHS/ELV COMPLIANT ELECTROLYTIC CAPACITORS PRODUCT LIST

Part   Part	Product	Series	Six Ha	zardous S	ubstance	s		phant, 7t. Non None	Others
Name	Group					chromium	biphenyls	diphenyl ethers	(Chlorine or
SS	<del>-</del>	SS	0	0	0	0	0	0	0
SEK	Miniature	S5	0	0	0	0	0	0	0
SH		SK	0	0	0	0	0	0	0
SG		SEK	0	0	0	0	0	0	0
SP		SH	0	0	0	0	0	0	0
SB		SG	0	0	0	0	0	0	0
SR		SP	0	0	0	0	0	0	0
SN		SB	0	0	0	0	0	0	0
SC		SR	0	0	0	0	0	0	0
SJ		SN	0	0	0	0	0	0	0
SQ		SC	0	0	0	0	0	0	0
SY		SJ	0	0	0	0	0	0	0
SZ		SQ	0	0	0	0	0	0	0
ST		SY	0	0	0	0	0	0	0
SU		SZ	0	0	0	0	0	0	0
SW O		ST	0	0	0	0	0	0	0
SL O		SU	0	0	0	0	0	0	0
SD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		SW	0	0	0	0	0	0	0
E-Cap LH O O O O O O O O   Large Can LG O		SL	0	0	0	0	0	0	0
Large Can   LG		SD	0	0	0	0	0	0	0
LV 0 0 0 0 0 0 0	=	LH	0	0	0	0	0	0	0
	Large Can	LG	0	0	0	0	0	0	0
LC 0 0 0 0 0 0		LV	0	0	0	0	0	0	0
		LC	0	0	0	0	0	0	0



Product	Series	Six Hazardous Substances							
Group		lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)	
E-Cap	CA	0	0	0	0	0	0	0	
Surface Mount	СВ	0	0	0	0	0	0	0	
	CE	0	0	0	0	0	0	0	
	CZ	0	0	0	0	0	0	0	
	CD	0	0	0	0	0	0	0	
	СХ	0	0	0	0	0	0	0	
	СН	0	0	0	0	0	0	0	
E-Cap	CG	0	0	0	0	0	0	0	
Polymer	СР	0	0	0	0	0	0	0	
E-Cap	NP	0	0	0	0	0	0	0	
Screw Type	NM	0	0	0	0	0	0	0	
	NF	0	0	0	0	0	0	0	
	NH	0	0	0	0	0	0	0	
	NG	0	0	0	0	0	0	0	
	SL-N	0	0	0	0	0	0	0	
	SSL-N	0	0	0	0	0	0	0	
	STD-N	0	0	0	0	0	0	0	
	XL-N	0	0	0	0	0	0	0	



#### **Rohs/elv Compliant Inductor Product List**

Product	Series	Six F	lazardous S	Substance	S			Others
Group		lead (Pb)	Mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr <sup>+6</sup> )	polybrominated biphenyls (PBBs)	polybrominated diphenyl ethers (PBDEs)	Halogen (Chlorine or Bromine)
Inductor	CL-N	0	0	0	0	0	0	0
	NL-N	0	0	0	0	0	0	0
	NLC - N							0
	LCN - N							0
	PB/SB/NB-N	0	0	0	0	0	0	0
	RC-N	0	0	0	0	0	0	0
	SCD-N	0	0	0	0	0	0	0
	SDS-N	0	0	0	0	0	0	0
	SL-N	0	0	0	0	0	0	0
	SSL-N	0	0	0	0	0	0	0
	STD-N	0	0	0	0	0	0	0
	XL-N	0	0	0	0	0	0	0