

◆ POLYMER MULTI-LAYER CAPACITORS (PMLCAP®)

Type	RoHS Compliance	RoHS substances							Identification for RoHS compliance parts	MSL (IPC/JEDEC J-STD-020C)
		Lead		Cadmium	Mercury	Chromium (VI)	PBB	PBDE		
		Structural component	Terminal plating							
SMD type	Complied	Not contain	Sn plating	Not contain	Not contain	Not contain	Not contain	Not contain	No indication	LEVEL 5

◆ CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS (PC-CON)

Type	RoHS Compliance	RoHS substances							Identification for RoHS compliance parts	MSL (IPC/JEDEC J-STD-020C)	
		Lead			Cadmium	Mercury	Chromium (VI)	PBB			PBDE
		Molding resin	Terminal plating	Resistance to soldering heat Solderability Whisker							
SMD type	Complied	Halogen free molding resin	Ni / Pd / Au plating	250°C5s Reflow 245°C3s immersed No whiskers growth	Not contain	Not contain	Not contain	Not contain	Not contain	No indication	After opening package LEVEL 3
SMD type SL	Complied	Molding resin	Sn / Bi / plating	250°C5s Reflow 245°C3s immersed No whiskers growth	Not contain	Not contain	Not contain	Not contain	Not contain	No indication	After opening package LEVEL 5

◆ ELECTRIC DOUBLE LAYER CAPACITORS

Type	RoHS Compliance	RoHS substances							Identification for RoHS compliance parts	MSL (IPC/JEDEC J-STD-020C)		
		Lead				Cadmium	Mercury	Chromium (VI)			PBB	PBDE
		Outer Sleeves	Terminal plating	Terminal material	Resistance to soldering heat Solderability Whisker							
Lead wire terminal type	Complied	PET sleeve	Sn plating	Fe/Cu/Sn	No change "No difference with Sn-Pb plating" "No difference with Sn-Pb plating"	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package

◆ ALUMINUM ELECTROLYTIC CAPACITORS

Type	RoHS Compliance	RoHS substances							Identification for RoHS compliance parts	MSL (IPC/JEDEC J-STD-020C)		
		Lead				Cadmium	Mercury	Chromium (VI)			PBB	PBDE
		Outer Sleeves	Terminal plating	Terminal material	Resistance to soldering heat Solderability Whisker							
SMD type	Complied	Nylon Laminated or PET sleeve	< or = 10mm Dia. Changed to Sn-Bi > or = 12.5mm Dia. Changed to Sn	Fe/Cu/Sn -0.5Bi	Change (Please contact us for detail) No difference with Sn-Pb plating No difference with Sn-Pb plating	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package
Lead wire terminal type	Complied	Replaced to Lead-free PVC (*)	Changed to Sn plating	Fe/Cu/Sn	No change No difference with Sn-Pb plating No difference with Sn-Pb plating	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package
Snap-in terminal type	Complied	Replaced to Lead-free PVC (*)	Changed to Sn plating	Fe/Cu/Sn	No change No difference with Sn-Pb plating No difference with Sn-Pb plating	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package
Screw terminal type	Complied	Replaced to Lead-free PVC	Not contain	Aluminum	Not applicable	Not contain	Not contain	Change Chromium(VI) contained in the plating of fixtures to Chromium(III)	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package

(\*) PET sleeve type can be available according to your request. However there are exceptional sizes. Please consult us for detailed information.

◆ FILM CAPACITORS

Type	RoHS Compliance	RoHS substances							Identification for RoHS compliance parts	MSL (IPC/JEDEC J-STD-020C)		
		Lead				Cadmium	Mercury	Chromium (VI)			PBB	PBDE
		Internal electrode	Terminal plating	Terminal material	Resistance to soldering heat Solderability Whisker							
Metalized Type	Complied	Changed to Lead-free metal spray	Changed to Sn-Cu plating	Fe/Cu/Sn or Cu/Sn	No change No change Not observed	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package
Foil Type	Complied	Aluminum foil	Changed to Sn plating	Fe/Cu/Sn	No change No change Not observed	Not contain	Not contain	Not contain	Not contain	Not contain	Add "RoHS Compliance" marking on inner and outer carton label	Not applicable No need dry package