

Eco-Products “GeoCap”

Nichicon promotes environmentally conscious practices.

Nichicon offers “GeoCap”, which has completely lead free terminals and contains no polyvinyl chloride in the sleeve.

■ Solid Tantalum Electrolytic Capacitors

Type · Classification		Series	Lead-Free Compliance	Anti Polyvinyl Chloride Compliance	Page
Surface Mount type	Resin-Molded type	F91, F92, F93, F97, F98	Complied	Complied	324 ~
	Conformal Coated type	MUSE F95, F95, F72, F75			332 ~

Corresponding to RoHS Directive

		Solid Tantalum Electrolytic Capacitors		
		Resin-Molded Chip F91, F92, F93, F97 series	Frameless Conformal Coated Chip MUSE F95, F95, F72, F75 series	Frameless Resin-Molded Chip F98 series
Corresponding to RoHS Directive		Complied	Complied	Complied
Material	The portion of the components	Does not contain	Does not contain	Does not contain
Lead (Pb)	Plating on terminals	Sn	Sn-Cu	Au
	Structural component	Does not contain	Does not contain	Does not contain
	Construction of terminal	42 Alloy/ Ni / Sn	Ni / Sn-Cu solder	Cu / Ni / Au
		Plating thickness 5μm Plating type matte No heat treatment after plating	Plating thickness 30μm (Solder dipping) No heat treatment after plating	Au thickness 0.05μm Au type matte No heat treatment after plating
	Solderability Shear strength	No significant solderability difference between Sn-Ag-Cu and Sn-Pb solder.	No significant solderability difference between Sn-Ag-Cu and Sn-Pb solder.	No significant solderability difference between Sn-Ag-Cu and Sn-Pb solder.
Whisker	60deg C/90% 2000h -55/+85 2000cycle Room Temp. 2000h <div style="border: 1px solid black; padding: 2px; display: inline-block;">Whisker is not observed</div>	Not applicable	Not applicable	
Chromium (VI)	Does not contain	Does not contain	Does not contain	
Mercury				
Cadmium				
PBB				
PBDE				
MSL (IPC/JEDEC J-STD-020D)	LEVEL 1 No need dry package	※ LEVEL 1 to LEVEL 3 If you need detailed information about NSL LEVEL, please contact your local Nichicon sales office.	LEVEL 1 No need dry package	