

KDS Offers RoHS Compliant and Pb Free Products

KDS intends to be fully compliant with the RoHS directive by meeting the restrictions for lead, mercury, cadmium, hexavalent chromium PBB, and PBDE. Please check the list below for RoHS compliant and Pb free products

As of Oct 1, 2007

	Type	Materials of Pin	RoHS Compliant (Y/N)	Pb Free (Y/N)	Note
Crystal	DSX211A	Ni/Au	Y	Y	
	DSX221S	Ni/Au	Y	Y	
Resonators	DSX321SL	Ni/Au	Y	Y	
	DSX531S	Ni/Au	Y	Y	
	DSX221G	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX320G	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX321G	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX530GA	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX530GK	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX630G	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX840GA	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX840GK	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX840GT	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	DSX151GL/GAL	Ni/Au	Y	Pb in sealing-glass	Pb in sealing glass is exempted from the RoHS directive*.
	AT-49	Sn-Cu	Y	Y	
	HC-49/U	Sn-Cu	Y	Y	
	SMD-49	Sn-Cu	Y	Y	
	SMD-49TA/TB	Sn-Cu	Y	Y	
	AT-38	Sn	Y	Y	
	DMX-38	Sn	Y	High temperature solder	High temperature solder used inside the product is exempted from the RoHS directive*.
	UM SERIES	Ni/Au	Y	Y	
	UM-1J, 4J, 5J	Ni/Au	Y	Y	
Tuning Fork Crystal Resonators	DT-26	Sn	Y	Y	
	DT-261	Sn	Y	Y	
	DT-38	Sn	Y	Y	
	DT-381	Sn	Y	Y	
	DMX-26, 38	Sn	Y	High temperature solder	High temperature solder used inside the product is exempted from the RoHS directive*.
	DMX-26S	Sn	Y	High temperature solder	
	DST310S	Ni/Au	Y	Y	
	DST410S	Ni/Au	Y	Y	
	DST-621, 520	Ni/Au	Y	High temperature solder	High temperature solder used inside the product is exempted from the RoHS directive*.
	SM-14J	Sn-Pb	High temperature solder	High temperature solder	High temperature solder used inside the product and pin plating are exempted from the RoHS directive*. However, the high temperature solder on the terminals of the SM-26F/14 might melt and diffuse when they are mounted to the PCB.
	SM-26F	Sn-Pb	High temperature solder	High temperature solder	
Monolithic Crystal Filters	DSF223 SERIES	Ni/Au	Y	Y	
	DSF334 SERIES	Ni/Au	Y	Y	
	DSF444 SERIES	Ni/Au	Y	Y	
	DSF753 SERIES	Ni/Au	Y	Y	
	UM-4J	Ni/Au	Y	Y	
	UM-5J	Ni/Au	Y	Y	
	HC-49/T/TS	Sn-Cu	Y	Y	
	UM SERIES	Ni/Au	Y	Y	
Crystal Oscillators	DSO221S SERIES	Ni/Au	Y	Y	
	DSO321S SERIES	Ni/Au	Y	Y	
	DSO531S SERIES	Ni/Au	Y	Y	
	DSO751S SERIES	Ni/Au	Y	Y	
	DSO753H SERIES	Ni/Au	Y	Pb in chip resistor	Pb in chip resistor is exempted from the RoHS directive*.
	DSO753S SERIES	Ni/Au	Y	Y	
	DSO753SV SERIES	Ni/Au	Y	Y	
	DOC-49S SERIES	Ni/Au	Y	High temperature solder	High temperature solder used inside the product is exempted from the RoHS directive*.
	DSV321SR	Ni/Au	Y	Y	
	DSV321SV	Ni/Au	Y	Y	
	DSV531S/DSV532 SERIES	Ni/Au	Y	Y	
	DSV753SB/SV	Ni/Au	Y	Y	
	DSV753H SERIES	Ni/Au	Y	Pb in chip resistor	Pb in chip resistor is exempted from the RoHS directive*.
	DSA/DSB221SA	Ni/Au	Y	Y	
	DSA/DSB221SE	Ni/Au	Y	Y	
	DSA/DSB321SC	Ni/Au	Y	Y	
	DSA/DSB321SD	Ni/Au	Y	Y	
	DSA/DSB321SE	Ni/Au	Y	Y	
	DSA/DSB321SF	Ni/Au	Y	Y	
	DSA/DSB535SC	Ni/Au	Y	Y	
DSA/DSB535SD	Ni/Au	Y	Y		
DSA322MB	Ni/Au	Y	Y		

* RoHS directive (Directive of the Restriction of the use of the Hazardous Substances) exemptions are granted for high temperature solder and Pb content in low-melting glass of DSX-G Series. We will continue to use high temperature solder and low-melting glass containing Pb