

## RoHS/ELV Compliant Lead-free and Halogen-free products from KDS.

KDS is fully committed to environmental protection and has been proactively working to comply with the major environmental regulations such as RoHS Directive (Directive of the Restriction of the use of certain Hazardous Substances: 2011/65/EU and (EU) 2015/863), ELV Directive (End-of-Life Vehicles Directive: 2000/53/EC) and Halogen-free activities etc. The below spreadsheet provide the current status of the product compliance in each environmental regulations. Please visit our website for the latest information.(https://www.kds.info)

As of sept.30.2024

	Туре	RoHS/ELV Compliant	Halogen-free	Pb-free	Materials of pin	Note
Crystal Resonators/ MHz Band Crystal Resonators	DX1008J SERIES	0	0	0	Ni/Au	
	DSX1210A	0	0	0	Ni/Au	
	DSX1612S	0	0	0	Ni/Au	
	DSX211S, DSX211SH	0	0	0	Ni/Au	
	DSX221SH	0	0	0	Ni/Au	
	DSX321SH	0	0	0	Ni/Au	
	DSX210GE	0	0	Pb in sealing-glass	Ni/Au	Pb in sealing-glass is exempted from RoHS/ELV Directive. (*)
	DSX320GE	0	0	Pb in sealing-glass	Ni/Au	Pb in sealing-glass is exempted from RoHS/ELV Directive. (*)
	DSX211G	0	0	Pb in sealing-glass	Ni/Au	Pb in sealing-glass is exempted from RoHS/ELV Directive. (*
	DSX321G, DSX321GK	0	0	Pb in sealing-glass	Ni/Au	Pb in sealing-glass is exempted from RoHS/ELV Directive. (*
	DSX530GA	0	0	Pb in sealing-glass	Ni/Au	Pb in sealing-glass is exempted from RoHS/ELV Directive. (*
Tuning Fork Crystal Resonators/ kHz Band Crystal Resonators	DST1210A	0	0	0	Ni/Au	
	DST1610A	0	0	0	Ni/Au	
	DST210AC	0	0	0	Ni/Au	
	DST310SA	0	0	0	Ni/Au	
Crystal Resonators with dedicated temperature sensor/ MHz Band Crystal Resonators	DSR1210ATH	0	0	0	Ni/Au	
	DSR1612ATH	0	0	0	Ni/Au	
	DSR211STH	0	0	0	Ni/Au	
	DSR221STH	0	0	0	Ni/Au	
Temperature Compensated Crystal Oscillators (TCXO)	DA/DB2016AS	0	0	0	Ni/Au	
		0	0	0	Ni/Au	
	DSA/DSB211 SERIES	0	0	0	Ni/Au	
	DSA/DSB221 SERIES	0	0	0	Ni/Au	
	DSA/DSB321 SERIES	0	0	0	Ni/Au	
	DSA/DSB535 SERIES	0	0	0	Ni/Au	
	DSK1612ATD	0	0	0	Ni/Au	
	DSK321STD	0	0	0	Ni/Au	
Real Time Clock Module (RTC)	DD3225TS, DD3225TR	0	0	0	Ni/Au	
Simple Packaged Crystal Oscillators (SPXO)	DS1008J SERIES	0	0	0	Ni/Au	
	DS2016A SERIES	0	0	0	Ni/Au	
	DS2520A SERIES	0	0	0	Ni/Au	
	DS3225A SERIES	0	0	0	Ni/Au	
	DSO1612AR	0	0	0	Ni/Au	
	DSO211S SERIES	0	0	0	Ni/Au	
	DSO221S SERIES	0	0	0	Ni/Au	
	DSO223S SERIES	0	0	0	Ni/Au	
	DSO321S SERIES	0	0	0	Ni/Au	
	DSO323S SERIES	0	0	0	Ni/Au	
	DSO531S SERIES	0	0	0	Ni/Au	
	DSO533 SERIES	0	0	0	Ni/Au	
	DLO555MBA	0	0	0	Sn	
	DSO751S SERIES	0	0	0	Ni/Au	
	DSO753S SERIES	0	0	0	Ni/Au	
Voltage Controlled Crystal Oscillators (VCXO)	DSV221SV	0	0	0	Ni/Au	
	DSV321S	0	0	0	Ni/Au	
Monolithic Crystal Filters	DSF334 SERIES	0	0	0	Ni/Au	
	DSF444 SERIES	0	0	0	Ni/Au	
	DSF633 SERIES	0	0	0	Ni/Au	
	DSF753 SERIES	0	0	0	Ni/Au	

<sup>\*</sup> RoHS Directive and ELV Directive exemptions are granted for high temperature solder, lead content in low-melting glass of DSX-G Series.