

## **Lead Free Certification According to the EU RoHS Directive**

Across the world new legislation is being introduced with regard to the use of hazardous substances in electronic equipment. The main driving force for this change has been the Restrictions of Hazardous Substances (RoHS) Directive, and similar legislation around the world. BREL International "lead-free" products fully comply with the RoHS Directive.

### **Thinfilm/Thickfilm Chip Resistors and Leaded Resistors**

We declare that we are WEEE 2002/96/EC and RoHS 2002/95/EG compliant.

Products: AST, CCF, CCK, CHR, CHS, CMF, CRA, CRB, CRS, CRW, GST, HVR, RKL, TPS, and TRS

Exceptions:

RoHS Attachment 5: Lead in glass frit (all products)

RoHS Attachment 7: Lead in solder with high melting point Pb>85% for our leaded components.

### **Multilayer Ceramic Chip Capacitors-MLCC**

It is BREL International's policy to use non-hazardous chemicals in the manufacturing of its ceramic chip capacitors whenever it is technically feasible. BREL International is aware of our customers concerns about hazardous materials that have been listed in the European Union's directive of January 27, 2003 (RoHS Directive). BREL International states that it complies with the requirements of The EU RoHS Directive.



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The table below indicates our compliance across the BRELE International range for N=Nickel Barrier (100% Tin) Termination MLCC capacitors ONLY:

		 	RoHS, WEEE, ELV Compliant	Standard Term. 100% Sn	Compatible with lead-free solders	Compatible with lead solders
<b>Surface Mount Capacitors</b>						
COG	0603		Yes	Yes	Yes	Yes
	0805		Yes	Yes	Yes	Yes
	1206		Yes	Yes	Yes	Yes
	1210		Yes	Yes	Yes	Yes
	1410		Yes	Yes	Yes	Yes
	1806		Yes	Yes	Yes	Yes
	1808		Yes	Yes	Yes	Yes
	1812		Yes	Yes	Yes	Yes
	1825		Yes	Yes	Yes	Yes
	2211		Yes	Yes	Yes	Yes
	2215		Yes	Yes	Yes	Yes
	2220		Yes	Yes	Yes	Yes
	2225		Yes	Yes	Yes	Yes
	3640		Yes	Yes	Yes	Yes
	5550		Yes	Yes	Yes	Yes
	8060		Yes	Yes	Yes	Yes
X7R	0603		Yes	Yes	Yes	Yes
	0805		Yes	Yes	Yes	Yes
	1206		Yes	Yes	Yes	Yes
	1210		Yes	Yes	Yes	Yes
	1410		Yes	Yes	Yes	Yes
	1806		Yes	Yes	Yes	Yes
	1808		Yes	Yes	Yes	Yes
	1812		Yes	Yes	Yes	Yes
	1825		Yes	Yes	Yes	Yes
	2211		Yes	Yes	Yes	Yes
	2215		Yes	Yes	Yes	Yes
	2220		Yes	Yes	Yes	Yes
	2225		Yes	Yes	Yes	Yes
	3640		Yes	Yes	Yes	Yes
	5550		Yes	Yes	Yes	Yes
	8060		Yes	Yes	Yes	Yes

Note 1: Care must be taken not to reflow the internal joints when using high temperature Sn solders.

Note 2: 100% Sn finish available on request.



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