

Electronic Parts and Components

Varistor Material Data Sheet

Disk Varistor B72220S*
ate 13.02.2007
ersion 2.0

Construction Element Mate	Material energy	Materials	CAS	mass [weight-%]		-%]	Sum	Traces
	Material group		if applicable	min	typical	max	[%]	rraces
Active Part	•	•		•			45	
	Ceramics	ZnO(89%) Bi2O3(4,5%) Sb2O3(2,5%) Co3O4(1%) NiO(1%) Dopants(2%)	1314-13-2 1304-76-3 1309-64-4 1308-06-1 1313-99-1	41	45	49		
Termination			•			-	39	
	Metal	Ag	7440-22-4		0,5			
	Metal / Solder	Sn(96,5%) Ag(3%) Cu(0,5%)	7440-31-5 7440-22-4 7440-50-8	4	4,5	5		
	Metal / Leads	Cu(96%) Sn(4%)	7440-50-8 7440-31-5	31	34	37		
Encapsulation							16	
	Organic Polymer	SiO2(49%) Epoxy Resin(35%) Brominated epoxy(12%) Sb2O3(2,5%) Additives(1,5%)	60676-86-0 25068-38-6 40039-93-8 1309-64-4	15	16	17		
·		•	•		total:		100	

Case sizes:	Diameter [mm]	Approx. weight [g]	
S20	21.5	2.7 – 15.7	

Company:	EPCOS OHG	I
Contact:	Dr. Harald Bernhard, EH & S	1
Phone / Fax	+43 3462 800 2535 / +43 3462 800 391	
Mail	mailto:harald.bernhard@epcos.com	2

The component is RoHS-compatible, what means compatible with the requirements of the directives listed below and with the requirements of the provisions which will result from transformation of the directives into national law to the extent such provisions reflect the Regulations. Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive 2002/95/EC");

Commission Decision of 18 August 2005 amending Directive 2002/95/EC (2005/618/EC);

Commission Decision of 13 October 2005, of 21 October 2005, of 21 February 2006 amending the Annex to Directive 2002/95/EC (2005/717/EC; 2005/747/EC, 2006/310/EC).

*) exempted by Annex 2002/95/EC (RoHS):

5 Lead in glass of electronic components

7 (a) Lead in high melting temperature type solders (i.e. lead-based alloys containing $85\ \%$ by weight or more lead.

 $7\ (c)\ Lead\ in\ electronic\ ceramic\ part\ (e.g.\ piezoelectronic\ devices)$

Important remarks:

- Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated (see note no. 2).
- A list of the (legal) "... restrictions on substances ..." or materials is available at internet address of the EICTA organisation (C4E List)
- All statements herein are based on our present knowledge. If our products are used properly, there are no risks to human beings and/or the environment.