

Material Data Sheet

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Product P/N	ERJ6ENF8000V	Electric/Electronic component/Passive component
Product Classification		Na
Product Name	Chip Resistor	Substitute P/N
Pb	Pb free	Packaging Material
		Not included
		Weight TOTAL[mg]
		4.81295

Part Name		Material Name	Chemical Name	CASNo.	Remark	Weight of each chemical material in a part (mg)	Weight of a part (mg)	Rate of each chemical material in a part (%)	Rate of each chemical material in a product (wt%)	Rate of each part in a
Substrate		Ceramics	Aluminum oxide; Alumina; Corundum; Al2O3	1344-28-1		4.0572	4.2	96.6	67.264326	84.29733
			Silica; Silicon dioxide	7631-86-9		0.0882		2.1		1.832556
			Magnesium oxide; MgO	1309-48-4		0.042		1		0.872646
			Calcium oxide; CaO	1305-78-8		0.0128		0.3		0.261794
Top Terminal		Other special metals	Silver; Ag	7440-22-4		0.032982	0.03404	96.891889	0.707323	0.6853339
		Palladium; Pd	7440-05-3		0.000443	1.301411		0.003205		
	RoHS exemption	Glass	Lead(II) oxide; Lead oxide (PbO); CI Pigment Yellow 48; Lead monoxide; Lead(2+) oxide	1317-39-8		0.000307		0.901881		0.006379
		Cuprite oxide; Cu2O	1317-38-0		0.000205	0.002233		0.00426		
Bottom Terminal		Other special metals	Silver; Ag	7440-22-4		0.000103	0.02656	0.302586	0.593421	0.00214
		Glass	Lead(II) oxide; Lead oxide (PbO); CI Pigment Yellow 48; Lead monoxide; Lead(2+) oxide	1317-39-8		0.027845		97.496498		0.578564
	RoHS exemption	Glass	Silica; Silicon dioxide	7631-86-9		0.000429		1.502101		0.006914
		Silica; Silicon dioxide	7631-86-9		0.000268	1.001401		0.003943		
Resistive Element	RoHS exemption	Glass	Lead(II) oxide; Lead oxide (PbO); CI Pigment Yellow 48; Lead monoxide; Lead(2+) oxide	1317-39-8		0.004997	0.01136	43.987675	0.236074	0.103866
		Ruthenium(IV) oxide; RuO2	12038-10-1		0.00434	38.204226		0.090174		
		Boron oxide; B2O3	1303-86-2		0.001704	1.5		0.035405		
		Other antimony compounds			0.000213	1.875		0.004426		
		Manganese dioxide; MnO2	1313-13-9		0.000106	0.833099		0.002203		
		Glass	Lead(II) oxide; Lead oxide (PbO); CI Pigment Yellow 48; Lead monoxide; Lead(2+) oxide	1317-39-8		0.009832		54.988813		0.371542
		Silica; Silicon dioxide	7631-86-9		0.004578	25.604027		0.204324		
First Protective Coating	RoHS exemption	Glass	Silica; Silicon dioxide	7631-86-9		0.002307	0.01788	12.902685	0.095119	0.047934
		Boron oxide; B2O3	1303-86-2		0.000751	4.200224		0.015604		
		Zinc oxide; ZnO	1314-13-2		0.000412	2.304251		0.006361		
		Chromium(III) oxide; Pigment green 17 (C1); Cr2O3	1309-36-9		0.000412	2.304251		0.006361		
		Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde polymer with (chloromethyl)oxirane and 2-methylphenol	29890-82-2		0.027945	89		0.841481		
		Ceramics	Silica; Silicon dioxide	7631-86-9		0.009315		23		0.193541
Second Protective Coating	Others (Powder,etc)	Carbon black; C	1333-86-4		0.00324	8	0.067319			
	EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde polymer with (chloromethyl)oxirane and 2-methylphenol	29890-82-2		0.001701	60.967741	0.05799			
	Ceramics	Silica; Silicon dioxide	7631-86-9		0.000651	30.501793	0.017692			
	Others (Powder,etc)	Titanium dioxide; Pigment white 6; TiO2	13463-07-7		0.000238	8.530466	0.004945			
Marking 1	Other special metals	Silver; Ag	7440-22-4		0.047136	0.98882	47.898845	2.053254	0.8794	
	EP (Epoxy resin)	Bisphenol A, epichlorohydrin polymer; Epoxy resin; Epon 820; Araldite GY 250	29068-38-6		0.041208	41.700601	0.85619			
	Others (Powder,etc)	Carbon black; C	1333-86-4		0.005831	5.900628	0.121153			
Side Terminal	Other nonferrous metals	Potassium titanate; Potassium titanium oxide; K2Ti6O13	12056-91-8		0.004645	4.700468	0.096511			
	Nickel and Nickel alloys	Nickel; Ni	7440-02-0		0.223	100	4.633333	4.633333		
Middle Terminal	Other nonferrous metals	Tin; Sn	7440-31-5		0.156	0.156	100	3.241256	3.241256	

RoHS exemption 7c(1)
 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound