

Material Data Sheet

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Product P/N	ERJP08J@@@V		
Product Classification	Electric/Electronic component(Passive component)		
Product Name	Chip Resistor	Substitute P/N	No
Pb	Pb free	Packaging Material	Not included
		Weight TOTAL(mg)	9.49487

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 product(wt%)
Substrate		Ceramics	Aluminum oxide ; Alumina; Corundum; Al2O3	1344-28-1		8.1144	8.4	96.6	88.468676	85.460734
			Silica; Silicon dioxide	7631-86-9	0.1764	2.1		1.857846		
			Magnesium oxide; MgO	1309-48-4	0.084	1		0.884689		
			Calcium oxide; CaO	1305-78-8	0.0252	0.3		0.265407		
Top Terminal		Other special metals	Silver; Ag	7440-22-4		0.064	0.06605	96.89629	0.695672	0.67408
			Palladium; Pd	7440-05-3	0.000859	1.30053		0.009047		
		Glass	Cupric oxide; CuO	1317-38-0	0.000397	0.60106		0.004182		
			Silica; Silicon dioxide	7631-86-9	0.000199	0.301287		0.002096		
			Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monoxide; Lead(2+) oxide	1317-36-8	0.000595	0.900833		0.006267		
Bottom Terminal	RoHS exemption 7c(I)	Other special metals	Silver; Ag	7440-22-4		0.048593	0.04984	97.497993	0.524927	0.511793
			Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monoxide; Lead(2+) oxide	1317-36-8	0.000748		1.500803		0.007878
Resistive Element	RoHS exemption 7c(I)	Glass	Silica; Silicon dioxide	7631-86-9		0.000499	0.02505	1.001204	0.26385	0.005256
			Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monoxide; Lead(2+) oxide	1317-36-8	0.01102	43.992015		0.116084		
			Ruthenium(V) oxide; RuO2	12036-10-1	0.00957	38.203593		0.100792		
			Boron oxide; B2O3	1303-86-2	0.003758	15.001996		0.03958		
			Other antimony compounds	-	0.000469	1.872256		0.00494		
			Manganese dioxide; MnO2	1313-13-9	0.000233	0.93014		0.002454		
First Protective Coating	RoHS exemption 7c(I)	Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monoxide; Lead(2+) oxide	1317-36-8		0.019578	0.0356	54.99438	0.374962	0.206217
			Silica; Silicon dioxide	7631-86-9	0.009114	25.601124		0.095989		
			Boron oxide; B2O3	1303-86-2	0.004593	12.901686		0.048374		
			Zinc oxide; ZnO	1314-13-2	0.001496	4.202248		0.015756		
			Chromium(III) oxide; Pigment green 17 (C.I.); Cr2O3	1308-38-9	0.000819	2.300562		0.008626		
Second Protective Coating		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.069889	0.10129	68.998913	1.066809	0.736093
			Ceramics	Silica; Silicon dioxide	7631-86-9	0.023297		23.000297		0.245364
			Others (Powder, etc)	Carbon black; C	1333-86-4	0.008104		8.00079		0.085352
Marking 1		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.002488	0.00408	60.980392	0.042983	0.026215
			Ceramics	Silica; Silicon dioxide	7631-86-9	0.001245		30.514706		0.013113
			Others (Powder, etc)	Titanium dioxide; Pigment white 6; TiO2	13463-67-7	0.000347		8.504902		0.003655
Side Terminal		Other special metals	Silver; Ag	7440-22-4		0.102534	0.21496	47.699105	2.263983	1.07991
			EP (Epoxy resin)	Bisphenol A, epichlorohydrin polymer; Epoxy resin; Epon 820; Araldite GY 250	25068-38-6	0.089639		41.700317		0.944079
		Others (Powder, etc)	Carbon black; C	1333-86-4	0.012683	5.900168		0.133578		
		Other nonferrous metals	Potassium titanate; Potassium titanium oxide; K2Ti6O13	12056-51-8	0.010104	4.70041		0.106416		
Middle Terminal		Nickel and Nickel alloys	Nickel; Ni	7440-02-0		0.333	0.333	100	3.507157	3.507157
Outer Terminal		Other nonferrous metals	Tin; Sn	7440-31-5		0.265	0.265	100	2.790981	2.790981

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