

Dear Customers,

Material Data Sheet

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Product P/N	ERJP06D@@@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)
			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 product(wt%)
Substrate		Ceramics	Aluminum oxide ; Alumina; Corundum; Al2O3	1344-28-1		4.0572	4.2	96.6	87.264326	84.29733
			Quartz; SiO2	14808-60-7	0.0882	2.1		1.832556		
			Magnesium oxide; MgO	1309-48-4	0.042	1		0.872646		
			Calcium oxide; CaO	1305-78-8	0.0126	0.3		0.261794		
Top Terminal		Other special metals	Silver; Ag	7440-22-4		0.032982	0.03404	96.891889	0.707323	0.685339
			Palladium; Pd	7440-05-3	0.000443	1.301411		0.009205		
		Glass	Cupric oxide; CuO	1317-38-0	0.000205	0.602233		0.00426		
			Silica; Silicon dioxide	7631-86-9	0.000103	0.302586		0.00214		
	EU RoHS exemption 7(c)-1		Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8		0.000307		0.901881		0.006379
Bottom Terminal		Glass	Silver; Ag	7440-22-4		0.027845	0.02856	97.496498	0.593421	0.578564
			Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8	0.000429	1.502101		0.008914		
			Silica; Silicon dioxide	7631-86-9	0.000286	1.001401		0.005943		
Resistive Element		Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8		0.004997	0.01136	43.987675	0.236074	0.103866
			Ruthenium(IV) oxide; RuO2	12036-10-1	0.00434	38.204226		0.090174		
			Boron oxide; B2O3	1303-86-2	0.001704	15		0.035405		
			Other antimony compounds	-	0.000213	1.875		0.004426		
			Manganese dioxide; MnO2	1313-13-9	0.000106	0.933099		0.002203		
First Protective Coating		Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8		0.009832	0.01788	54.988813	0.371542	0.204324
			Silica; Silicon dioxide	7631-86-9	0.004578	25.604027		0.095119		
			Boron oxide; B2O3	1303-86-2	0.002307	12.902685		0.047934		
			Zinc oxide; ZnO	1314-13-2	0.000751	4.200224		0.015604		
			Chromium(III) oxide; Pigment green 17 (C.I.); Cr2O3	1308-38-9	0.000412	2.304251		0.008561		
Second Protective Coating		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.027945	0.0405	69	0.841481	0.580621
		Ceramics	Silica; Silicon dioxide	7631-86-9	0.009315	23		0.193541		
		Others (Powder,etc)	Carbon black; C	1333-86-4	0.00324	8		0.067319		
Marking 1		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.001701	0.00279	60.967741	0.05799	0.035363
		Ceramics	Silica; Silicon dioxide	7631-86-9	0.000851	30.501793		0.017682		
		Others (Powder,etc)	Titanium dioxide; Pigment white 6; TiO2	13463-67-7	0.000238	8.530466		0.004945		
Side Terminal		Other special metals	Silver; Ag	7440-22-4		0.047136	0.09882	47.698845	2.053254	0.9794
		EP (Epoxy resin)	Bisphenol A, epichlorohydrin polymer; Epoxy resin; Epon 820; Araldite GY 250	25068-38-6		0.041208		41.700061		0.85619
		Others (Powder,etc)	Carbon black; C	1333-86-4	0.005831	5.900628		0.121153		
		Other nonferrous metals	Potassium titanate; Potassium titanium oxide; K2Ti6O13	12056-51-8		0.004645		4.700466		0.096511
Middle Terminal		Nickel and Nickel alloys	Nickel; Ni	7440-02-0		0.223	0.223	100	4.633333	4.633333
Outer Terminal		Other nonferrous metals	Tin; Sn	7440-31-5		0.156	0.156	100	3.241256	3.241256

EU RoHS exemption 7(c)-1
 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