

Dear Customers,

Material Data Sheet

Date : November 6, 2019

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Product P/N	ERJS06J@@@V				
Product Classification	Electric/Electronic component(Passive component)				
Product Name	Chip resistor	Substitute P/N	No	Weight TOTAL(mg)	4.84805
Pb	Pb free	Packaging Material	Not included		

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	86.632507	83.686991
			Quartz; SiO2	14808-60-7		0.0882		2.1		1.819289
			Magnesium oxide; MgO	1309-48-4		0.042		1		0.866328
			Calcium oxide; CaO	1305-78-8		0.0126		0.3		0.259899
Top Terminal		Gold	Gold; Au	7440-57-5		0.03251	0.03444	94.39605	0.710432	0.670621
	EU RoHS exemption 7(c)-I	Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8		0.001309		3.800813		0.027001
			Cupric oxide; CuO	1317-38-0		0.000414		1.202091		0.00854
			Boron oxide; B2O3	1303-86-2		0.000207		0.601046		0.00427
Bottom Terminal		Other special metals	Silver; Ag	7440-22-4		0.027845	0.02856	97.496498	0.589125	0.574376
	EU RoHS exemption 7(c)-I	Glass	Lead(II) oxide; Lead oxide (PbO); C.I. Pigment Yellow 46; Lead monooxide; Lead(2+) oxide	1317-36-8		0.000429		1.502101		0.008849
			Silica; Silicon dioxide	7631-86-9		0.000286		1.001401		0.0059
Resistive Element	EU RoHS exemption 7(c)-I	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	0.234365	0.103114
			Ruthenium(IV) oxide; RuO2	12036-10-1		0.00434		38.204226		0.089521
			Boron oxide; B2O3	1303-86-2		0.001704		15		0.035149
			Other antimony compounds	-		0.000213		1.875		0.004394
			Manganese dioxide; MnO2	1313-13-9		0.000106		0.933099		0.002187
First Protective Coating	EU RoHS exemption 7(c)-I	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	0.368852	0.202845
			Silica; Silicon dioxide	7631-86-9		0.004578		25.604027		0.09443
			Boron oxide; B2O3	1303-86-2		0.002307		12.902685		0.047587
			Zinc oxide; ZnO	1314-13-2		0.000751		4.200224		0.015491
			Chromium(III) oxide; Pigment green 17 (C.I.); Cr2O3	1308-38-9		0.000412		2.304251		0.008499
Re-top Terminal		Other special metals	Silver; Ag	7440-22-4		0.028835	0.0347	83.097982	0.715773	0.594796
		EP (Epoxy resin)	Bisphenol A, epichlorohydrin polymer; Epoxy resin; Epon 820; Araldite GY 250	25068-38-6		0.005865		16.902018		0.120977
Second Protective Coating		Ceramics	Silica; Silicon dioxide	7631-86-9		0.027325	0.0405	67.469135	0.835409	0.56365
		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.012199		30.120988		0.251627
		Others (Powder, etc)	Carbon black; C	1333-86-4		0.000976		2.409877		0.020132
Marking 1		EP (Epoxy resin)	Epichlorohydrin, o-cresol, formaldehyde polymer; Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2		0.001291	0.00279	46.272401	0.057571	0.02665
		Ceramics	Kaolin; Aluminum silicate hydroxide	1332-58-7		0.00065		23.297491		0.013408
			Silica; Silicon dioxide	7631-86-9		0.000182		6.523298		0.003754
		Others (Powder, etc)	Titanium dioxide; Pigment white 6; TiO2	13463-67-7		0.00065		23.297491		0.013408
	Copper phthalocyanine; Phthalocyanine copper; Phthalocyanine blue; Pigment blue 15	147-14-8		0.000017	0.609319	0.000351				
Side Terminal		Other special metals	Silver; Ag	7440-22-4		0.047136	0.09882	47.698845	2.038389	0.972309
		EP (Epoxy resin)	Bisphenol A, epichlorohydrin polymer; Epoxy resin; Epon 820; Araldite GY 250	25068-38-6		0.041208		41.700061		0.849992
		Others (Powder, etc)	Carbon black; C	1333-86-4		0.005831		5.900628		0.120276
		Other nonferrous metals	Potassium titanate; Potassium titanium oxide; K2Ti6O13	12056-51-8		0.004645		4.700466		0.095812
Middle Terminal		Nickel and Nickel alloys	Nickel; Ni	7440-02-0		0.223	0.223	100	4.599788	4.599788
Outer Terminal		Other nonferrous metals	Tin; Sn	7440-31-5		0.156	0.156	100	3.217789	3.217789

EU RoHS exemption 7(c)-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