

Material Data Sheet

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 Panasonic Electronic Devices Co.,Ltd.
 Circuit Components Business Unit
 Engineering & Quality Planning Group
 Environment Management Team
 Person in charge:Yasuo Katsuki

Product P/N	ERG1SJ@@@	Product Weight(mg)	320.153
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Part Name	Material Name	Chemical Name	CASNo.	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%)	
Ceramic rod	Alumina(Al2O3)	Aluminum oxide; Al2O3	1344-28-1	69.34886	84.1	82.46	26.268693	21.661162	
	Silica(SiO2)	Silica; Silicon dioxide	7631-86-9	9.42761		11.21		2.944721	
	Others (Ceramic)	Barium oxide; BaO		1304-28-5		2.3548		2.8	0.735524
		Calcium oxide; CaO		1305-78-8		1.32878		1.58	0.415046
		Magnesium oxide; MgO		1309-48-4		1.16899		1.39	0.365135
		Iron(III) oxide; Fe2O3		1309-37-1		0.47096		0.56	0.147105
Resistive film	Others (nonferrous metal)	Tin oxide; SnO2	18282-10-5	0.47045	0.485	97	0.151491	0.146946	
	Sb(Antimony) and Sb alloy	Antimony trioxide; Sb2O3	1309-64-4	0.01455		3		0.004545	
Varnish	Others (Thermosetting resin)	Dimethylpolysiloxane	63148-62-9	0.295	0.295	100	0.092144	0.092144	
cap	Steel(0.20%C<)	Iron; Fe	7439-89-6	42.3516	43.5	97.36	13.587255	13.22855	
	Sn(Tin)and Sn Alloy	Tin; Sn	7440-31-5	0.4785		1.1		0.14946	
	Pure copper	Copper; Cu	7440-50-8	0.4785		1.1		0.14946	
	Steel(0.20%C<)	Manganese; Mn		7439-96-5		0.1305		0.3	0.040762
		Carbon; C		7440-44-0		0.032625		0.075	0.010191
		Phosphorus; P		7723-14-0		0.0174		0.04	0.005435
		Sulphur		7704-34-9		0.010875		0.025	0.003397
Lead wire	Electric conductor (Cu,Al)	Copper; Cu	7440-50-8	149.4948	155.4	96.2	48.539284	46.69479	
	Sn(Tin)and Sn Alloy	Tin; Sn	7440-31-5	5.9052		3.8		1.844494	
Coating paint	Silica(SiO2)	Silica; Silicon dioxide	7631-86-9	34.092	36	94.7	11.244625	10.648659	
	Alumina(Al2O3)	Aluminum oxide; Al2O3	1344-28-1	1.08		3		0.337339	
	additives(pigment,dye(other colors))	Cobalt; Co	7440-48-4	0.72		2		0.224893	
	Ti(Titanium) and Ti alloy	Titanium dioxide; TiO2	13463-67-7	0.108		0.3		0.033734	
Marking	Others (Thermosetting resin)	Acrylamide	79-06-1	0.2984	0.373	80	0.116508	0.093206	
	Others (Aluminium alloy)	Aluminum; Al	7429-90-5	0.0746		20		0.023302	