

Material Data Sheet

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 Panasonic Electronic Devices Co., Ltd.
 Circuit Components Business Unit
 Engineering & Quality Planning Group
 Environment Management Team
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Product P/N		EXB26V@@@JX			Product Weight(mg)	1.9386
Part Name	Material Name	Chemical Name	CASNo.	Weight of each chemical material in a part (mg)	Weight of a part(mg)	
substrate	Alumina (Al ₂ O ₃)	Aluminum oxide ; Al ₂ O ₃	1344-28-1	1.58907	1.645	
	Silica(SiO ₂)	Silica; Silicon dioxide	7631-86-9	0.034545		
	Others (Ceramic)	Magnesium oxide; MgO	1309-48-4	0.01645		
		Calcium oxide; CaO	1305-78-8	0.004935		
top terminal	Ag(silver) and Ag alloy	Silver; Ag	7440-22-4	0.008137	0.0084	
	Pd(Palladium) and Pd alloy	Palladium; Pd	7440-05-3	0.00011		
	Lead glass	Lead(II) oxide; PbO	1317-36-8	0.000078		
	Others (Glass)	Cupric oxide; CuO	1317-38-0	0.000051		
		Silica; Silicon dioxide	7631-86-9	0.000026		
bottom terminal	Ag(silver) and Ag alloy	Silver; Ag	7440-22-4	0.007605	0.0078	
	Lead glass	Lead(II) oxide; PbO	1317-36-8	0.000117		
	Others (Glass)	Silica; Silicon dioxide	7631-86-9	0.000078		
Resistive element	Lead glass	Lead(II) oxide; PbO	1317-36-8	0.004575	0.0104	
	Others (Glass)	Ruthenium(IV) oxide; RuO ₂	12036-10-1	0.003973		
		Boron oxide; B ₂ O ₃	1303-86-2	0.00156		
		Other antimony compounds	M-129	0.000195		
		Manganese dioxide; MnO ₂	1313-13-9	0.000097		
First protective coating	Lead glass	Lead(II) oxide; PbO	1317-36-8	0.006378	0.0116	
	Others (Glass)	Silica; Silicon dioxide	7631-86-9	0.00297		
		Boron oxide; B ₂ O ₃	1303-86-2	0.001497		
		Zinc oxide; ZnO	1314-13-2	0.000488		
		Chromium(III) oxide; Cr ₂ O ₃	1308-38-9	0.000267		
Second protective coating	Others (Glass)	Aluminum silicate n-hydrate; Al ₂ (SiO ₃) ₃	12141-46-7	0.01708	0.035	
	Epoxy resin (EP)	Bromophenol, formaldehyde, epichlorohydrin polymer	68541-56-0	0.01281		
	Unsaturated polyester (UP)	1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, decanedioic acid, 2,2-dimethyl-1,3-propanediol and 1,2-ethanediol	26353-05-9	0.003185		
	additives(pigment,dye(black))	Carbon black; C	1333-86-4	0.001085		
	Silica(SiO ₂)	Silica; Silicon dioxide	7631-86-9	0.00084		
side terminal	Ag(silver) and Ag alloy	Silver; Ag	7440-22-4	0.00973	0.0204	
	Epoxy resin (EP)	Epoxy resin; Araldite GY 250	25068-38-6	0.008507		
	additives(pigment,dye(black))	Carbon black; C	1333-86-4	0.001204		
	Others (nonferrous metal)	Potassium titanium oxide; K ₂ Ti ₆ O ₁₃	12056-51-8	0.000959		
middle terminal	Ni(Nickel) and Ni alloy	Nickel; Ni	7440-02-0	0.107	0.107	
outer terminal	Sn(Tin)and Sn Alloy	Tin; Sn	7440-31-5	0.093	0.093	