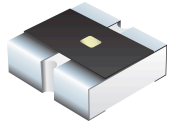


# MATERIAL DECLARATION SHEET



Material Number	CAY06-J2AS Series			
Product Line	Chip Resistor			
Compliance Date	11/19/2015			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic substrate	Alumina	0.479	Magnesium oxide	1309-48-4	1.3	1.12801	86.77
				Crystalline silica	14808-60-7	3.0	2.6031	
				Aluminum oxide	1344-28-1	95.0	82.4315	
				Calcium oxide	1305-78-8	0.7	0.60739	
2	Rear electrode	Ag glass	0.004	Lead	7439-92-1	5.0	0.0365	0.73
				Boron	7440-42-8	1.0	0.0073	
				Cupric oxide	1317-38-0	5.0	0.0365	
				Silver	7440-22-4	85.0	0.6205	
				Crystalline silica	14808-60-7	4.0	0.0292	
3	Surface electrode	AgPd glass	0.004	Lead	7439-92-1	2.0	0.0146	0.73
				Boron	7440-42-8	1.0	0.0073	
				Palladium	7440-05-3	21.0	0.1533	
				Silver	7440-22-4	73.0	0.5329	
				Crystalline silica	14808-60-7	2.0	0.0146	
				Zirconium oxide	1314-23-4	1.0	0.0073	
4	Resistance Element	RuO2 glass	0.002	Lead	7439-92-1	26.0	0.0936	0.36
				Boron	7440-42-8	4.0	0.0144	
				Palladium	7440-05-3	7.0	0.0252	
				Silver	7440-22-4	38.0	0.1368	
				Crystalline silica	14808-60-7	9.0	0.0324	
				Manganese oxide	1313-13-9	1.0	0.0036	
				Ruthenium oxide	12036-10-1	15.0	0.054	
5	Protective Coat 1	Glass	0.004	Lead	7439-92-1	50.0	0.365	0.73
				Boron	7440-42-8	10.0	0.073	
				Crystalline silica	14808-60-7	37.0	0.2701	
				Chromium oxide	1308-38-9	3.0	0.0219	

# MATERIAL DECLARATION SHEET



6	Protective Coat 2	Resin	0.005	Crystalline silica	14808-60-7	35.0	0.315	0.90
				Epoxy resin	Proprietary	65.0	0.585	
7	Stamp	Resin	0.001	Nickel	7440-02-0	4.0	0.0072	0.18
				Crystalline silica	14808-60-7	22.0	0.0396	
				Titanium dioxide	13463-67-7	22.0	0.0396	
				Epoxy resin	Proprietary	52.0	0.0936	
8	Side electrode	Resin	0.004	Silver	7440-22-4	85.0	0.6205	0.73
				Epoxy resin	Proprietary	15.0	0.1095	
9	Internal coating	Nickel	0.027	Nickel	7440-02-0	99.75	4.8778	4.89
				Misc., not to declare	N/A	0.25	0.0122	
10	External coating	Tin	0.022	Tin	7440-31-5	99.75	3.97	3.98
				Misc., not to declare	N/A	0.25	0.01	
Total weight			0.552					

**This Document was updated on:** January 5, 2017

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.