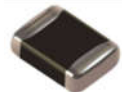


# MATERIAL DECLARATION



Product Part Number	AV Series	
Product Line	Automotive SMD varistors	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material / Substances	CASRN if applicable	Material Mass [%]	Material Mass [%] of total unit wt.	Subpart mass of total wt. [%]
1	Ceramic body	Ceramic	0.070297	Zinc oxide	1314-13-2	91.5	80.9745	88.5131
				Dibismuth-trioxide	1304-76-3	3.0	2.6454	
				Antimonytrioxide	1309-64-4	3.0	2.6454	
				Tricobalt-tetraoxide	1308-06-1	1.5	1.3227	
				Trimanganese tetraoxide	1317-35-7	0.6	0.5728	
				Chromium(III)oxide	1308-38-9	0.3	0.2636	
				Silica, amorphous fumed	112945-52-5	0.1	0.0885	
2	Inner electrodes	AgPd alloy	0.002920	Silver	7440-22-4	90	3.3088	3.6764
				Palladium	7440-05-3	10	0.3676	
3	Ag termination	Silver	0.005396	Silver	7440-22-4	96.9	6.5853	6.7947
				Glass frit, lead containing	65997-18-4	3.1	0.2094	
4	Nickel plating	Nickel	0.000269	Nickel	7440-02-0	100	0.3386	0.3386
5	Tin plating	Tin	0.000538	Tin	7440-31-5	100	0.6772	0.6772
			Total weight	0.07942				

**This Document was updated on:** September, 2020

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Presented data corresponds to part **AV17K1812801NIR1**. Weight may change depending on varistor value and dimension.