

# MATERIAL DECLARATION SHEET



Material Number	HPP			
Product Line	Fixed Resistor			
Compliance Date	10/10/2024			
RoHS Compliant		MSL	1	

Reference P/N: HPP5-10KJ8

No.	Construction Element (Subpart)	Homogeneous Material	Material Weight (g)	Homogeneous Material Substance	CASRN	Material Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic Core	Ceramic	2.0400	Silicon Dioxide (SiO <sub>2</sub> )	7631-86-9	14.5000%	9.6619%	66.6340%
				Magnesium (Mg)	7439-95-4	1.1300%	0.7530%	
				Aluminum (Al)	7429-90-5	83.3200%	55.5195%	
				Barium (Ba)	7440-39-3	1.0500%	0.6997%	
2	Ceramic Cap	Iron	0.1500	Iron (Fe)	7439-89-6	99.9000%	4.8947%	4.8996%
				Tin (Sn)	7440-31-5	0.1000%	0.0049%	
3	Terminal	Copper C10100	0.233994	Copper (Cu)	7440-50-8	99.9954%	7.6428%	7.6431%
		Tin Plating	0.006006	Trace not to declare		0.0046%	0.0004%	
4	Resistive Element	EVNOM Alloy	0.0637	Nickel (Ni)	7440-02-0	74.4000%	1.5480%	2.0807%
				Chromium (Cr)	7440-47-3	20.0000%	0.4161%	
				Aluminum (Al)	7429-90-5	3.5000%	0.0728%	
				Silicon (Si)	7440-21-3	1.0000%	0.0208%	
				Iron (Fe)	7439-89-6	0.5000%	0.0104%	
				Manganese (Mn)	7439-96-5	0.5000%	0.0104%	
				Copper (Cu)	7440-50-8	0.1000%	0.0021%	
5	Silicon coat	Silicon	0.5678	Silica, amorphous	112926-00-8	31.2000%	5.7865%	18.5465%
				Silica, crystalline - Tripoli	1317-95-9	25.0000%	4.6366%	
				Kaolin	1332-58-7	12.9000%	2.3925%	
				Carbon black	1333-86-4	0.6000%	0.1113%	
				Mica	12001-26-2	12.9000%	2.3925%	
				Trimethoxy(methyl)silane	1185-55-3	17.4000%	3.2271%	
Total Weight			3.0615					

**This Document was updated on: 10/16/2024**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Resistive material weight will be different based on the resistance value.
3. The weight of the core and coating material will differ based on the size.