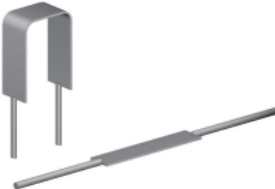


# MATERIAL DECLARATION SHEET



Material Number	<b>MS</b>			
Product Line	<b>Fixed Resistor</b>			
Compliance Date	<b>10/10/2024</b>			
RoHS Compliant		MSL	<b>1</b>	

Reference P/N: MS5-0R025J1 (Under 0.02 Ohm)

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	Terminal	Copper C102	0.3900	Copper (Cu)	7440-50-8	99.9990%	56.0098%	56.0103%
				Oxygen (O)	7782-44-7	0.0010%	0.0006%	
		Tin Plating	0.0100	Tin (Sn)	7440-31-5	100.0000%	1.4362%	1.4362%
2	Resistive Element	Cuprothal	0.2963	Nickel (Ni)	7440-02-0	44.0000%	18.7235%	42.5535%
				Iron (Fe)	7439-89-6	0.5000%	0.2128%	
				Manganese (Mn)	7439-96-5	1.0000%	0.4255%	
				Copper (Cu)	7440-50-8	54.5000%	23.1917%	
		Total Weight	0.6963					

Reference P/N: MS5-0R05F2 (Over 0.02 Ohm)

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	Terminal	Copper C102	0.3900	Copper (Cu)	7440-50-8	99.9990%	51.7579%	51.7585%
				Oxygen (O)	7782-44-7	0.0010%	0.0005%	
		Tin Plating	0.0100	Tin (Sn)	7440-31-5	100.0000%	1.3271%	1.3271%
2	Resistive Element	EVNOM Alloy	0.3535	Nickel (Ni)	7440-02-0	74.4000%	34.9043%	46.9144%
				Chromium (Cr)	7440-47-3	20.0000%	9.3829%	
				Aluminum (Al)	7429-90-5	3.5000%	1.6420%	
				Silicon (Si)	7440-21-3	1.0000%	0.4691%	
				Iron (Fe)	7439-89-6	0.5000%	0.2346%	
				Manganese (Mn)	7439-96-5	0.5000%	0.2346%	
		Total Weight	0.7535	Copper (Cu)	7440-50-8	0.1000%	0.0469%	

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

**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.