

MATERIAL DECLARATION SHEET



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



Reference P/N: MT4-0R01F1 (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%	15.2134%	15.2136%
				Oxygen (O)	7782-44-7	0.0010%	0.0002%	
		Tin Plating	0.0100	Tin (Sn)	7440-31-5	100.0000%	0.3901%	0.3901%
2	Resistive Element	Cuprothal	0.0593	Nickel (Ni)	7440-02-0	44.0000%	1.0178%	2.3132%
				Iron (Fe)	7439-89-6	0.5000%	0.0116%	
				Manganese (Mn)	7439-96-5	1.0000%	0.0231%	
				Copper (Cu)	7440-50-8	54.5000%	1.2607%	
3	Compound Mold	Epoxy Mold	2.1042	Epoxy Resin	25068-38-6	17.0000%	13.9541%	82.0831%
				Phenolic Resin	9003-35-4	8.0000%	6.5666%	
				Mineral Fillers	60676-86-0	63.0000%	51.7123%	
				Flame Retardants	Trade Secret	8.0000%	6.5666%	
				Pigments	Not to Declare	4.0000%	3.2833%	
		Total Weight	2.5635					

Reference P/N: MT4-0R05F1 (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%	15.3288%	15.3290%
				Oxygen (O)	7782-44-7	0.0010%	0.0002%	
		Tin Plating	0.0100	Tin (Sn)	7440-31-5	100.0000%	0.3931%	0.3931%
2	Resistive Element	EVNOM Alloy	0.0400	Nickel (Ni)	7440-02-0	74.4000%	1.1697%	1.5722%
				Chromium (Cr)	7440-47-3	20.0000%	0.3144%	

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				Aluminum (Al)	7429-90-5	3.5000%	0.0550%	
				Silicon (Si)	7440-21-3	1.0000%	0.0157%	
				Iron (Fe)	7439-89-6	0.5000%	0.0079%	
				Manganese (Mn)	7439-96-5	0.5000%	0.0079%	
				Copper (Cu)	7440-50-8	0.1000%	0.0016%	
3	Compound Mold	Epoxy Mold	2.1042	Epoxy Resin	25068-38-6	17.0000%	14.0600%	82.7058%
				Phenolic Resin	9003-35-4	8.0000%	6.6165%	
				Mineral Fillers	60676-86-0	63.0000%	52.1046%	
				Flame Retardants	Trade Secret	8.0000%	6.6165%	
				Pigments	Not to Declare	4.0000%	3.3082%	
		Total Weight	2.5442					

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.