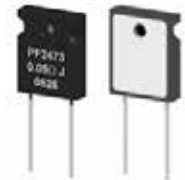


MATERIAL DECLARATION SHEET



Material Number	PF2472			
Product Line	Fixed Resistor			
Compliance Date	3/11/2025			
RoHS Compliant	Yes w/ exemption	MSL	1	

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	Chip	Ceramic	0.2306	Aluminum Oxide	1344-28-1	96.00%	2.3273%	2.4243%
				Silicon dioxide	14808-60-7	4.00%	0.0970%	
		Conductor Layer Thick Film	0.0124	Silver Powder	7440-22-4	97.00%	0.1269%	0.1308%
				Platinum	7440-06-4	1.00%	0.0013%	
				Di copper oxide	1317-39-1	1.00%	0.0013%	
				Zinc oxide	1314-13-2	1.00%	0.0013%	
		Thick Film Resistive Element	0.0055	Ruthenium oxide	12060-10-1	25.00%	0.0144%	0.0577%
				Silver Powder	7440-22-4	40.00%	0.0231%	
				Palladium	7440-05-03	15.00%	0.0087%	
				Lead	7439-92-1	20.00%	0.0115%	
2	Shell	Molding Compound Black	1.8178	Glass	65997-17-3	85.00%	0.0474%	19.1132%
				Lead in Glass	7439-92-1	15.00%	0.0084%	
				Epoxy Resin	25068-38-6	17.00%	3.2492%	
				Phenolic Resin	9003-35-4	8.00%	1.5291%	
				Mineral Fillers	60676-86-0	63.00%	12.0413%	
				Flame Retardants	Trade Secret	8.00%	1.5291%	
				Pigments	Not to Declare	4.00%	0.7645%	

MATERIAL DECLARATION



3	Lead Wire	Copper C101	0.1000	Copper	7440-50-8	99.90%	1.0504%	1.0514%
				Misc	Not to Declare	0.100%	0.0011%	
		Tin Plating	0.0980	Tin	7440-31-5	100.00%	1.0304%	1.0304%
		Nickel Plating	0.0980	Nickel	7440-02-0	100.00%	1.0304%	1.0304%
4	Back Plate	C10200	3.9425	Copper	7440-50-8	99.98%	41.4454%	41.4533%
				Iron	7439-89-6	0.0050%	0.0021%	
				Phosphorus	7723-14-0	0.0030%	0.0012%	
				Lead	7439-92-1	0.0050%	0.0021%	
				Zinc	7440-66-6	0.0030%	0.0012%	
				Cadmium	7440-43-9	0.0030%	0.0012%	
5	Lead-Free Solder	SAC305	3.1150	Copper	7440-50-8	0.500%	0.1638%	32.7526%
				Tin	7440-31-5	96.50%	31.6063%	
				Silver	7440-22-4	3.00%	0.9826%	
6	Solder Preform	Solder	0.0856	Tin	7440-31-5	95.60%	0.8604%	0.9000%
				Silver	7440-22-4	3.40%	0.0306%	
				Rosin Mix	65997-05-9	1.00%	0.0090%	
		Total Weight	9.5107					

This Document was updated on: 12/12/2025

Important remarks:

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