

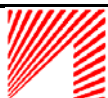
Material Declaration



Package Type	5 x 7
Package Size	5 x 7 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	152.000
MSL	1

Series	CPPL
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	6.774	4.456%	7440-02-0	
		Cobalt (Co)	3.943	2.594%	7440-48-4	
		Iron (Fe)	12.666	8.333%	7439-89-6	
Base	Ceramic	Alumina (Al ₂ O ₃)	86.460	56.882%	1344-28-1	
		Silicon Dioxide (SiO ₂)	3.436	2.261%	14808-60-7	
		Chromium Oxide (Cr ₂ O ₃)	3.690	2.427%	1308-38-9	
		Titanium Oxide (TiO ₂)	0.958	0.630%	13463-67-7	
		Calcium Oxide (CaO)	0.330	0.217%	1305-79-9	
		Magnesium Oxide (MgO)	0.474	0.312%	1309-48-4	
		Tungsten (W)	13.107	8.623%	7440-33-7	
		Seal Ring	Nickel (Ni)	5.122	3.369%	7440-02-0
	Gold (Au)		0.584	0.384%	7440-57-5	
	Iron (Fe)		6.399	4.210%	7439-89-6	
	Cobalt (Co)		2.434	1.601%	7440-48-4	
	Silver Solder	Silver (Ag)	1.872	1.232%	7440-22-4	
		Copper (Cu)	0.330	0.217%	7440-50-8	
	IC	IC	Aluminum (Al)	0.003	0.002%	7429-90-5
			Titanium (Ti)	0.001	0.001%	7440-32-6
Silicon (Si)			1.057	0.696%	7440-21-3	
Gold		Gold (Au)	0.316	0.208%	7440-57-5	
Adhesive		Silver (Ag)	0.00021	0.00014%	7440-22-4	
		Epoxy	0.00007	0.00005%		
Capacitor	Body	Nickel (Ni)	0.010	0.007%	7440-02-0	
		BaTiO ₃	0.830	0.546%	12047-27-7	
	Termination	Nickel (Ni)	0.013	0.009%	7440-02-0	
		Tin (Sn)	0.019	0.013%	7440-31-5	
		Copper (Cu)	0.025	0.016%	7440-50-8	
Crystal	Crystal	Silicon Dioxide (SiO ₂)	1.123	0.739%	14808-60-7	
	Electrode	Silver (Ag)	0.021	0.014%	7440-22-4	
		Nickel (Ni)	0.00018	0.00012%	7440-02-0	
	Adhesive	Silver (Ag)	0.00041	0.00027%	7440-22-4	
		Silicon (Si)	0.00014	0.00009%	7440-21-3	
Total			152.000	100.000%		



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