

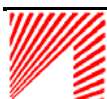
Material Declaration



Package Type	5 x 7
Package Size	5 x 7 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	128.000
MSL	1

Series	CSSC
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	5.532	4.322%	7440-02-0	
		Cobalt (Co)	3.220	2.516%	7440-48-4	
		Iron (Fe)	10.345	8.082%	7439-89-6	
	Plating	Nickel (Ni)	0.792	0.618%	7440-02-0	
Base	Ceramic	Alumina (Al ₂ O ₃)	62.790	49.054%	1344-28-1	
		Silicon Dioxide (SiO ₂)	2.492	1.947%	7631-86-9	
		Chromium Oxide (Cr ₂ O ₃)	2.681	2.094%	1308-38-9	
		Titanium Oxide (TiO ₂)	0.693	0.541%	13463-67-7	
		Calcium Oxide (CaO)	0.234	0.183%	1305-79-9	
		Magnesium Oxide (MgO)	0.351	0.274%	1309-48-4	
		Molybdenum (Mo)	0.387	0.302%	7439-98-7	
	Metallization	Tungsten (W)	12.414	9.698%	7440-33-7	
	Nickel Plating	Nickel (Ni)	1.601	1.251%	7440-02-0	
		Cobalt (Co)	0.405	0.316%	7440-48-4	
	Gold Plating	Gold (Au)	0.558	0.436%	7440-57-5	
	Seal ring	Iron (Fe)	10.075	7.871%	7439-89-6	
		Nickel (Ni)	5.415	4.231%	7440-02-0	
		Cobalt (Co)	3.175	2.481%	7440-48-4	
	Silver solder	Silver (Ag)	2.366	1.848%	7440-22-4	
		Copper (Cu)	0.414	0.323%	7440-50-8	
	IC	IC	Aluminum (Al)	0.024	0.018%	7429-90-5
			Silicon (Si)	0.363	0.284%	7440-21-3
		Gold	Gold (Au)	0.079	0.062%	7440-57-5
		Adhesive	Silver (Ag)	0.134	0.105%	7440-22-4
Phenolic Resin			0.012	0.009%		
Epoxy Resin	Epoxy Resin	0.012	0.009%			
	Crystal	Crystal	Silicon Dioxide (SiO ₂)	1.331	1.040%	14808-60-7
Electrode		Silver (Ag)	0.028	0.022%	7440-22-4	
		Chromium (Cr)	0.0005	0.0004%	7440-47-3	
Adhesive		Silver (Ag)	0.067	0.052%	7440-22-4	
	Silicon (Si)	0.012	0.009%	7440-21-3		
Total			128.000	100.000%		



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