

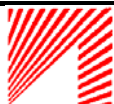
# Material Declaration



Package Type	5 x 7
Package Size	5 x 7 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	180.000
MSL	1

Series	CC154
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	8.069	4.483%	7440-02-0	
		Cobalt (Co)	4.697	2.610%	7440-48-4	
		Iron (Fe)	15.089	8.383%	7439-89-6	
	Plating	Nickel (Ni)	1.155	0.641%	7440-02-0	
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	102.209	56.783%	1344-28-1	
		Silicon Dioxide (SiO <sub>2</sub> )	4.054	2.252%	7631-86-9	
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	4.356	2.420%	1308-38-9	
		Titanium Oxide (TiO <sub>2</sub> )	1.127	0.626%	13463-67-7	
	Metallization	Tungsten (W)	13.514	7.508%	7440-33-7	
	Nickel Plating	Nickel (Ni)	2.127	1.182%	7440-02-0	
		Cobalt (Co)	0.518	0.288%	7440-48-4	
	Gold Plating	Gold (Au)	0.601	0.334%	7440-57-5	
	Seal Ring	Iron (Fe)	7.622	4.234%	7439-89-6	
		Nickel (Ni)	4.092	2.273%		
		Cobalt (Co)	2.400	1.333%	7440-48-4	
	Silver Solder	Silver (Ag)	2.230	1.239%	7440-22-4	
		Copper (Cu)	0.394	0.219%	7440-50-8	
	IC	IC	Aluminum (Al)	0.0034	0.0019%	7429-90-5
			Tungsten (W)	0.0004	0.0002%	7440-33-7
Titanium (Ti)			0.0003	0.0001%	7440-32-6	
Silicon (Si)			1.207	0.671%	7440-21-3	
Gold Wire		Gold (Au)	0.377	0.209%	7440-57-5	
Adhesive		Silver (Ag)	0.000247	0.000137%	7440-22-4	
		Epoxy	0.000082	0.000046%		
Crystal	Crystal	Quartz (SiO <sub>2</sub> )	4.133	2.296%	14808-60-7	
	Electrode	Silver (Ag)	0.025	0.014%	7440-22-4	
		Nickel (Ni)	0.000209	0.000116%	7440-02-0	
	Adhesive	Silver (Ag)	0.00049	0.00027%	7440-22-4	
		Silicon (Si)	0.000164	0.000091%	7440-21-3	
<b>Total</b>			<b>180.000</b>	<b>100.000%</b>		



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