

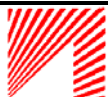
# Material Declaration



Package Type	5 x 3.2
Package Size	5 x 3.2 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	50.000
MSL	1

Series	CAM5
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	0.886	1.773%	7440-02-0	
		Cobalt (Co)	0.478	0.957%	7440-48-4	
		Iron (Fe)	1.509	3.018%	7439-89-6	
	Nickel Plating	Nickel (Ni)	0.294	0.587%	7440-02-0	
		Phosphorus (P)	0.033	0.065%	7723-14-0	
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	29.977	59.955%	1344-28-1	
		Silicon Oxide (SiO <sub>2</sub> )	1.467	2.933%	7631-86-9	
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	0.224	0.449%	1308-38-9	
		Magnesium Oxide (MgO)	0.197	0.395%	1309-48-4	
		Calcium Oxide (CaO)	0.211	0.421%	1305-78-9	
	Metallization	Tungsten (W)	3.951	7.902%	7440-33-7	
		Molybdenum (Mo)	0.431	0.862%	7439-98-7	
	Nickel Plating	Nickel (Ni)	0.475	0.949%	7440-02-0	
		Cobalt (Co)	0.126	0.252%	7440-48-4	
	Gold Plating	Gold (Au)	0.078	0.156%	7440-57-5	
	Seal Ring	Iron (Fe)	3.901	7.802%	7439-89-6	
		Nickel (Ni)	2.129	4.257%	7440-02-0	
		Cobalt (Co)	1.227	2.455%	7440-48-4	
	Silver Solder	Silver (Ag)	1.220	2.440%	7440-22-4	
		Copper (Cu)	0.215	0.431%	7440-50-8	
	IC	IC	Aluminum (Al)	0.011	0.022%	7429-90-5
			Silicon (Si)	0.171	0.342%	7440-21-3
Gold		Gold (Au)	0.037	0.074%	7440-57-5	
Adhesive		Silver (Ag)	0.063	0.126%	7440-22-4	
		Phenolic Resin	0.006	0.011%		
	Epoxy Resin	0.006	0.011%			
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	0.627	1.253%	14808-60-7	
	Electrode	Silver (Ag)	0.0133	0.0266%	7440-22-4	
		Chromium (Cr)	0.0002	0.0004%	7440-47-3	
	Adhesive	Silver (Ag)	0.032	0.063%	7440-22-4	
		Silicon (Si)	0.006	0.011%	7440-21-3	
<b>Total</b>			<b>50.000</b>	<b>100.000%</b>		



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