

Material Declaration



Package Type	SMD
Package Size	5 x 3.2 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	44.000
MSL	1

Series	CX45
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	2.606	5.922%	7440-02-0	
		Cobalt (Co)	1.517	3.447%	7440-48-4	
		Iron (Fe)	4.873	11.074%	7439-89-6	
	Plating	Nickel (Ni)	0.373	0.847%	7440-02-0	
Base	Ceramic	Alumina (Al ₂ O ₃)	20.973	47.665%	1344-28-1	
		Silicon Dioxide (SiO ₂)	0.767	1.743%	7631-86-9	
		Chromium Oxide (Cr ₂ O ₃)	0.822	1.868%	1308-38-9	
		Titanium Oxide (TiO ₂)	0.212	0.481%	13463-67-7	
	Metallization	Tungsten (W)	3.284	7.463%	7440-33-7	
	Nickel Plating	Nickel (Ni)	0.436	0.992%	7440-02-0	
		Cobalt (Co)	0.144	0.327%	7440-48-4	
	Gold Plating	Gold (Au)	0.114	0.260%	7440-57-5	
	Seal ring	Iron (Fe)	Iron (Fe)	3.076	6.991%	7439-89-6
			Nickel (Ni)	1.640	3.727%	7440-02-0
			Cobalt (Co)	1.076	2.446%	7440-48-4
	Silver solder	Silver (Ag)	0.720	1.637%	7440-22-4	
		Copper (Cu)	0.127	0.289%	7440-50-8	
Crystal	Crystal	Quartz (SiO ₂)	1.233	2.802%	14808-60-7	
	Electrode	Silver (Ag)	0.008	0.018%	7440-22-4	
		Nickel (Ni)	0.00007	0.000153%	7440-02-0	
	Adhesive	Silver (Ag)	0.0002	0.00036%	7440-22-4	
		Silicon (Si)	0.00005	0.00012%	7440-21-3	
TOTAL			44.000	100.000%		



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