

# Material Declaration



Package Type	SMD
Package Size	4 x 2.5 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	45.000
MSL	1

Series	CX425
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Kovar	Nickel (Ni)	2.665	5.922%	7440-02-0	
		Cobalt (Co)	1.551	3.447%	7440-48-4	
		Iron (Fe)	4.983	11.074%	7439-89-6	
	Plating	Nickel (Ni)	0.381	0.847%	7440-02-0	
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	21.449	47.665%	1344-28-1	
		Silicon Dioxide (SiO <sub>2</sub> )	0.784	1.743%	7631-86-9	
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	0.841	1.868%	1308-38-9	
		Titanium Oxide (TiO <sub>2</sub> )	0.216	0.481%	13463-67-7	
	Metallization	Tungsten (W)	3.358	7.463%	7440-33-7	
	Nickel Plating	Nickel (Ni)	0.446	0.992%	7440-02-0	
		Cobalt (Co)	0.147	0.327%	7440-48-4	
	Gold Plating	Gold (Au)	0.117	0.260%	7440-57-5	
	Seal ring	Iron (Fe)	Iron (Fe)	3.146	6.991%	7439-89-6
			Nickel (Ni)	1.677	3.727%	7440-02-0
			Cobalt (Co)	1.101	2.446%	7440-48-4
	Silver solder	Silver (Ag)	0.737	1.637%	7440-22-4	
		Copper (Cu)	0.130	0.289%	7440-50-8	
	Crystal	Crystal	Quartz (SiO <sub>2</sub> )	1.261	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	
<b>TOTAL</b>			45.000	100.000%		



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