

Material Declaration



Package Type	5 x 7
Package Size	5 x 7 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	176.000
MSL	1

Series	CC85
--------	------

Item	Material	Element	Content (mg)	Content (wt%)	CAS #
Cover	Kovar	Nickel (Ni)	7.807	4.436%	7440-02-0
		Cobalt (Co)	4.544	2.582%	7440-48-4
		Iron (Fe)	14.598	8.294%	7439-89-6
	Plating	Nickel (Ni)	1.117	0.635%	7440-02-0
Base	Ceramic	Alumina (Al2O3)	98.884	56.184%	1344-28-1
		Silicon Dioxide (SiO2)	3.922	2.229%	7631-86-9
		Chromium Oxide (Cr2O3)	4.214	2.395%	1308-38-9
		Titanium Oxide (TiO2)	1.090	0.620%	13463-67-7
	Metallization	Tungsten (W)	13.075	7.429%	7440-33-7
	Nickel Plating	Nickel (Ni)	1.676	0.952%	7440-02-0
		Cobalt (Co)	0.419	0.238%	7440-48-4
	Gold Plating	Gold (Au)	0.581	0.330%	7440-57-5
	Seal ring	Iron (Fe)	7.374	4.190%	7439-89-6
		Nickel (Ni)	3.959	2.250%	7440-02-0
		Cobalt (Co)	2.322	1.319%	7440-48-4
	Silver solder	Silver (Ag)	2.158	1.226%	7440-22-4
		Copper (Cu)	0.381	0.216%	7440-50-8
	IC	IC	Aluminum (Al)	0.002	0.001%
Molybdenum (Mo)			0.000	0.000%	7439-98-7
Silicon (Si)			1.267	0.720%	7440-21-3
Gold Wire		Gold (Au)	0.364	0.207%	7440-57-5
Adhesive		Silver (Ag)	0.000239	0.000136%	7440-22-4
		Epoxy	0.00007934	0.0000451%	
Crystal	Crystal	Quartz (SiO2)	6.220	3.534%	14808-60-7
	Electrode	Silver (Ag)	0.024	0.014%	7440-22-4
		Nickel (Ni)	0.000202	0.000115%	7440-02-0
	Adhesive	Silver (Ag)	0.00047	0.00027%	7440-22-4
		Silicon (Si)	0.000159	0.000090%	7440-21-3
Total			176.000	100.000%	



Cardinal Components, Inc.
145 Rt. 46 West
Wayne, NJ 07470

TEL: (973)785-1333
E-MAIL: sales@cardinalxtal.com
WEB: http://www.cardinalxtal.com