

# Material Declaration



Package Type	SMD
Package Size	7.2 x 5.2 mm
Terminal Finish	8 microns
Finish Thickness	Matte Tin
Weight (mg)	108.000
MSL	1

Series	CX5
--------	-----

Item	Material	Element	Content (mg)	Content (wt%)	CAS #
Cover	Kovar	Nickel (Ni)	6.396	5.922%	7440-02-0
		Cobalt (Co)	3.723	3.447%	7440-48-4
		Iron (Fe)	11.960	11.074%	7439-89-6
	Plating	Nickel (Ni)	0.915	0.847%	7440-02-0
Base	Ceramic	Alumina (Al2O3)	51.478	47.665%	1344-28-1
		Silicon Dioxide (SiO2)	1.882	1.743%	7631-86-9
		Chromium Oxide (Cr2O3)	2.017	1.868%	1308-38-9
		Titanium Oxide (TiO2)	0.519	0.481%	13463-67-7
	Metallization	Tungsten (W)	8.060	7.463%	7440-33-7
	Nickel Plating	Nickel (Ni)	1.071	0.992%	7440-02-0
		Cobalt (Co)	0.353	0.327%	7440-48-4
	Gold Plating	Gold (Au)	0.281	0.260%	7440-57-5
	Seal ring	Iron (Fe)	7.550	6.991%	7439-89-6
		Nickel (Ni)	4.025	3.727%	7440-02-0
		Cobalt (Co)	2.642	2.446%	7440-48-4
	Silver solder	Silver (Ag)	1.768	1.637%	7440-22-4
		Copper (Cu)	0.312	0.289%	7440-50-8
	Crystal	Crystal	Quartz (SiO2)	3.026	2.802%
Electrode		Silver (Ag)	0.019	0.018%	7440-22-4
		Nickel (Ni)	0.00017	0.000153%	7440-02-0
Adhesive		Silver (Ag)	0.0004	0.00036%	7440-22-4
		Silicon (Si)	0.00013	0.00012%	7440-21-3
<b>TOTAL</b>			<b>108.000</b>	<b>100.000%</b>	



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

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