

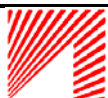
Material Declaration



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	CPPD
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Item	Material	Element	Content (mg)	Content (wt%)	CAS #
Cover	Kovar	Nickel (Ni)	2.201	4.402%	7440-02-0
		Cobalt (Co)	1.281	2.563%	7440-48-4
		Iron (Fe)	4.116	8.232%	7439-89-6
Base	Ceramic	Alumina (Al ₂ O ₃)	28.096	56.193%	1344-28-1
		Silicon Dioxide (SiO ₂)	1.117	2.233%	14808-60-7
		Chromium Oxide (Cr ₂ O ₃)	1.199	2.398%	1308-38-9
		Titanium Oxide (TiO ₂)	0.311	0.623%	13463-67-7
		Calcium Oxide (CaO)	0.107	0.215%	1305-79-9
		Magnesium Oxide (MgO)	0.154	0.308%	1309-48-4
		Tungsten (W)	4.259	8.518%	7440-33-7
		Seal Ring	Nickel (Ni)	1.664	3.329%
	Gold (Au)		0.190	0.379%	7440-57-5
	Iron (Fe)		2.079	4.159%	7439-89-6
	Cobalt (Co)		0.791	1.582%	7440-48-4
	Silver Solder	Silver (Ag)	0.608	1.217%	7440-22-4
		Copper (Cu)	0.107	0.215%	7440-50-8
	IC	IC	Aluminum (Al)	0.001	0.002%
Titanium (Ti)			0.000	0.001%	7440-32-6
Silicon (Si)			0.344	0.687%	7440-21-3
Gold		Gold (Au)	0.103	0.205%	7440-57-5
Adhesive		Silver (Ag)	0.00007	0.00013%	7440-22-4
		Epoxy	0.00002	0.00004%	
Capacitor	Body	Nickel (Ni)	0.010	0.020%	7440-02-0
		BaTiO ₃	0.830	1.660%	12047-27-7
	Termination	Nickel (Ni)	0.013	0.026%	7440-02-0
		Tin (Sn)	0.019	0.038%	7440-31-5
		Copper (Cu)	0.025	0.050%	7440-50-8
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.365	0.730%	14808-60-7
	Electrode	Silver (Ag)	0.007	0.014%	7440-22-4
		Nickel (Ni)	0.00006	0.00011%	7440-02-0
	Adhesive	Silver (Ag)	0.00013	0.00026%	7440-22-4
		Silicon (Si)	0.00004	0.00009%	7440-21-3
Total			50.000	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