

# Material Declaration



Package Type	5 x 7 Overmold
Package Size	5 x 7 mm
Terminal Finish	Gold
Finish Thickness	0.5 microns
Weight (mg)	56.000

Series	CPPL7P
--------	--------

Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Package	Overmold	Silicon Dioxide (SiO2)	4.3281	7.743%	14464-46-1	
		Epoxy Resin	1.1351	2.027%		
		Aldehyde Resin	0.8988	1.605%		
Base	FR4	Bromine (Br)	3.8495	6.873%	7726-95-6	
		Antimony Trioxide (Sb2O3)	3.8495	6.873%	1309-64-4	
		Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromopolymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis(phenol)	6.5520	11.698%	26265-08-7	
	FR-4	Copper (Cu)	3.6352	6.490%	7440-50-8	
		GF-Fibre	11.6944	20.880%		
	Copper Anode	Copper (Cu)	0.4002	0.715%	7440-50-8	
	Soldermask	Bisphenol A, epichlorohydrin polymer	0.0666	0.119%	25068-38-6	
		(2-Methoxymethylethoxy)propanol	0.0166	0.030%	34590-94-8	
		Barium sulphate	0.0582	0.104%	7727-43-7	
		2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	0.0166	0.030%	71868-10-5	
		Dipropylene glycol ethyl ether	0.0083	0.015%	15764-24-6	
	ENIG	Nickel bis(sulphamidate)	0.0538	0.096%	13770-89-3	
		Gold (Au)	0.0017	0.003%	7440-57-5	
	IC	IC	Aluminum (Al)	0.0011	0.002%	7429-90-5
			Titanium (Ti)	0.0004	0.001%	7440-32-6
Silicon (Si)			0.3856	0.688%	7440-21-3	
Gold		Gold (Au)	0.1153	0.206%	7440-57-5	
Adhesive		Silver (Ag)	0.0001	0.000%	7440-22-4	
	Epoxy	0.0000	0.000%			
Capacitor	Body	Nickel (Ni)	0.0100	0.018%	7440-02-0	
		BaTiO3	0.8300	1.482%	12047-27-7	
	Termination	Nickel (Ni)	0.0130	0.023%	7440-02-0	
		Tin (Sn)	0.0190	0.034%	7440-31-5	
	Copper (Cu)	0.0250	0.045%	7440-50-8		
Crystal Cover	Kovar	Nickel (Ni)	1.0681	1.907%	7440-02-0	
		Cobalt (Co)	0.6217	1.110%	7440-48-4	
		Iron (Fe)	1.9973	3.566%	7439-89-6	
	Plating	Nickel (Ni)	0.1528	0.273%	7440-02-0	
Crystal Base	Ceramic	Alumina (Al2O3)	8.5969	15.349%	1344-28-1	
		Silicon Dioxide (SiO2)	0.3144	0.561%	7631-86-9	
		Chromium Oxide (Cr2O3)	0.3369	0.602%	1308-38-9	
		Titanium Oxide (TiO2)	0.0868	0.155%	13463-67-7	
	Metallization	Tungsten (W)	1.3460	2.403%	7440-33-7	
	Nickel Plating	Nickel (Ni)	0.1789	0.319%	7440-02-0	
		Cobalt (Co)	0.0590	0.105%	7440-48-4	
	Gold Plating	Gold (Au)	0.0469	0.084%	7440-57-5	
	Seal ring	Iron (Fe)	1.2609	2.251%	7439-89-6	
		Nickel (Ni)	0.6722	1.200%	7440-02-0	
		Cobalt (Co)	0.4412	0.788%	7440-48-4	
	Silver solder	Silver (Ag)	0.2952	0.527%	7440-22-4	
		Copper (Cu)	0.0521	0.093%	7440-50-8	
	Crystal	Crystal	Quartz (SiO2)	0.5054	0.902%	14808-60-7
		Electrode	Silver (Ag)	0.0032	0.006%	7440-22-4
Nickel (Ni)			0.0000	0.000%	7440-02-0	
Adhesive		Silver (Ag)	0.0001	0.000%	7440-22-4	
		Silicon (Si)	0.0000	0.000%	7440-21-3	
<b>Total</b>			56.0000	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