

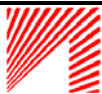
Material Declaration



Package Type	TH
Package Size	7.8 x 6 mm
Terminal Finish	Matte Tin
Finish Thickness	8 microns
Weight (mg)	262.000
MSL	1

Series	CM5
--------	-----

Item	Material	Element	Content (mg)	Content (wt%)	CAS #	
Cover	Nickel Silver	Nickel (Ni)	23.891	9.12%	7440-02-0	
		Copper (Cu)	89.526	34.17%	7440-50-8	
		Iron (Fe)	0.263	0.10%	7439-89-6	
		Zinc (Zn)	29.929	11.42%	7440-66-6	
		Manganese (Mn)	0.788	0.30%	7439-96-5	
Base	SPCC	Carbon C	0.023	0.01%	7440-44-0	
		Silicon (Si)	0.790	0.30%	7440-21-3	
		Copper (Cu)	1.486	0.57%	7440-50-8	
	Kovar	Iron (Fe)	89.001	33.97%	7439-89-6	
		Nickel (Ni)	4.608	1.76%	7440-02-0	
		Cobalt (Co)	2.688	1.03%	7440-48-4	
	Solder Plating	Tin (Sn)	0.017	0.01%	7440-31-5	
	Crystal mount	Nickel (Ni)	Nickel (Ni)	0.463	0.18%	7440-02-0
			Manganese (Mn)	0.002	0.00%	7439-96-5
			Iron (Fe)	0.001	0.00%	7439-89-6
			Zinc (Zn)	0.673	0.26%	7440-66-6
	Glass	Glass Frit	2.625	1.00%	65997-18-4	
	Crystal	Crystal	Silicon Dioxide (SiO2)	10.502	4.01%	14808-60-7
Electrode		Silver (Ag)	1.575	0.60%	7440-22-4	
Adhesive		Silver (Ag)	2.363	0.90%	7440-22-4	
		Ethylene Glycol monobutyl ether	0.158	0.06%	112-07-2	
		Diethylene glycol monomethyl ether acetate	0.158	0.06%	629-38-9	
		Epoxy resin	0.473	0.18%	129915-35-1	
TOTAL			262.000	100.000%		



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

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