



# Material Declaration Data Sheet

## CD18 (Formerly CD 1/8)

**Zero Ohm Resistor**



Date: **November 7, 2012** Max Temp: **260°C** (Contact factory for detailed soldering recommendations.)  
 Component Weight (g): **0.2031**

BOM Item	Material	CAS Number	Material Weight (g)	Material PPM of Component	Material % of BOM Item	BOM Item Weight (g)	BOM Item % of Component
Ceramic	aluminum oxide	1344-28-1	0.059	288,331	96.00%	0.0610	30.03%
	silicon oxide	7631-86-9	0.001	6,007	2.00%		
	magnesium oxide	1309-48-4	0.001	3,003	1.00%		
	calcium oxide	1305-78-8	0.001	3,003	1.00%		
Element	carbon	7440-44-0	0.003	14,993	78.95%	0.0039	1.90%
	silicon	7440-21-3	0.001	3,998	21.05%		
Cap and lead assembly	iron	7439-89-6	0.001	3,998	0.65%	0.1257	61.87%
	copper	7440-50-8	0.125	614,697	99.35%		
Termination plating	tin	7440-31-5	0.006	29,985	100.00%	0.0061	3.00%
Under-coat	phenol, polymer w/ formaldehyde	9003-35-4	0.000	1,999	100.00%	0.0004	0.20%
Over-coat	bisphenol a, epichlorohydrin polymer	25068-38-6	0.006	29,985	100.00%	0.0061	3.00%
Total Weight			0.2031				

\* Weights are approximate.



# Material Declaration Data Sheet

## CD14 (Formerly CD 1/4)

**Zero Ohm Resistor**



Date: **November 7, 2012** Max Temp: **260°C** (Contact factory for detailed soldering recommendations.)  
 Component Weight (g): **0.2669**

BOM Item	Material	CAS Number	Material Weight (g)	Material PPM of Component	Material % of BOM Item	BOM Item Weight (g)	BOM Item % of Component
Ceramic	aluminum oxide	1344-28-1	0.077	287,748	96.00%	0.0800	29.97%
	silicon oxide	7631-86-9	0.002	5,995	2.00%		
	magnesium oxide	1309-48-4	0.001	2,997	1.00%		
	calcium oxide	1305-78-8	0.001	2,997	1.00%		
Element	carbon	7440-44-0	0.004	15,006	78.95%	0.0051	1.90%
	silicon	7440-21-3	0.001	4,001	21.05%		
Cap and lead assembly	iron	7439-89-6	0.001	4,001	0.65%	0.1653	61.92%
	copper	7440-50-8	0.164	615,230	99.35%		
Termination plating	tin	7440-31-5	0.008	30,011	100.00%	0.0080	3.00%
Under-coat	phenol, polymer w/ formaldehyde	9003-35-4	0.001	2,001	100.00%	0.0005	0.20%
Over-coat	bisphenol a, epichlorohydrin polymer	25068-38-6	0.008	30,011	100.00%	0.0080	3.00%
Total Weight			0.2669				

\* Weights are approximate.



# Material Declaration Data Sheet

## CD12 (Formerly CD 1/2)

**Zero Ohm Resistor**



Date: **November 7, 2012** Max Temp: **260°C** (Contact factory for detailed soldering recommendations.)  
 Component Weight (g): **0.3224**

BOM Item	Material	CAS Number	Material Weight (g)	Material PPM of Component	Material % of BOM Item	BOM Item Weight (g)	BOM Item % of Component
Ceramic	aluminum oxide	1344-28-1	0.093	288,834	96.00%	0.0970	30.09%
	silicon oxide	7631-86-9	0.002	6,017	2.00%		
	magnesium oxide	1309-48-4	0.001	3,009	1.00%		
	calcium oxide	1305-78-8	0.001	3,009	1.00%		
Element	carbon	7440-44-0	0.005	14,981	78.95%	0.0061	1.90%
	silicon	7440-21-3	0.001	3,995	21.05%		
Cap and lead assembly	iron	7439-89-6	0.001	3,995	0.65%	0.1993	61.82%
	copper	7440-50-8	0.198	614,237	99.35%		
Termination plating	tin	7440-31-5	0.010	29,963	100.00%	0.0097	3.00%
Under-coat	phenol, polymer w/ formaldehyde	9003-35-4	0.001	1,998	100.00%	0.0006	0.20%
Over-coat	bisphenol a, epichlorohydrin polymer	25068-38-6	0.010	29,963	100.00%	0.0097	3.00%
Total Weight			0.3224				

\* Weights are approximate.