

BCN164A summary material content, BI Technologies Corporation 6/21/06

Average mass of BCN164A array is 0.007 grams each. Scientific notation is used for all component masses.

Homogeneous						Tolerance (% of	
Material	Homogeneous			Weight per unit	homogenous		
Location	Material Name	Material name	CAS #	(grams)	material mass)	Special classification	
Substrate	Alumina	Aluminium trioxide	1344-28-1	5.723E-03	96.45%		
		Magnesium oxide	1309-48-4	6.600E-05	1.11%		
		Silicon dioxide	14808-60-7	1.240E-04	2.09%		
		Calcium oxide	1305-78-8	2.100E-05	0.35%		
Thick film	Metals and Oxides	Boron trioxide	1303-86-2	5.400E-05	10.88%		
		Bismuth trioxide	1304-76-3	4.000E-06	0.73%		
		Chromium(III) oxide	1308-38-9	4.000E-06	0.82%		
		Antimony trioxide	1309-64-4	3.100E-07	0.06%		
		Manganese(IV) oxide	1313-13-9	5.000E-06	1.03%		
		Zinc oxide	1314-13-2	2.000E-06	0.47%		
		Vanadium(V) oxide	1314-62-1	1.000E-06	0.15%		
		Lead(II) oxide	1317-36-8	1.540E-04	31.32%	PbO in thick film glass. Lead in glass of electronic components is exempted from RoHS Directive.	
		Copper oxide	1317-38-0	6.000E-06	1.27%		
		Aluminium trioxide	1344-28-1	1.600E-05	3.25%		
		Ruthenium(IV) oxide	12036-10-1	9.000E-06	1.92%		
		Silicon dioxide	14808-60-7	5.400E-05	11.01%		
		Palladium	7440-05-3	8.000E-06	1.64%		
		Silver	7440-22-4	1.730E-04	35.24%		
rest		1.000E-06	0.21%	claimed as non-hazardous			
Termination	Plating	Nickel	7440-02-0	1.500E-04	55.00%		
		Tin	7440-31-5	1.230E-04	45.00%		