

Model 68 material declaration. BI Technologies Corporation

10/3/2013

LF and non-LF option content are identical after 2/1/2005

No content is banned per E.U. RoHS. Average mass of 68 trimmer is 0.95 grams each. Prepared by Eric Arnold (714) 447-2565

Weights above 1 milligram rounded to the nearest mg. Values less than 1 milligram given in scientific notation.

Sub-component	Material	% of total mass	Substance name	CAS #	Substance Weight (grams)	Special classification		
Housing	PBT blend	41.6%	PBT	26062-94-2	0.296			
			Fiberglass	65997-17-3	0.079			
			SbO	1309-64-4	0.020	Fire retardant		
Shaft	Brass	9.2%	Cu	7440-50-8	0.054			
			Zn	7440-66-6	0.031			
			Pb in brass	7439-92-1	0.003	Pb in copper alloy (RoHS 6c)		
	Cu plating	0.02%	Cu	7440-50-8	2.05E-04			
	Ni plating	0.2%	Ni	7440-02-0	1.84E-03	exposed nickel		
Rotor	PTFE	7.9%	PTFE	009002-84-0	0.075			
Contact	Cu alloy wire	0.14%	Cu	7440-50-8	7.15E-04			
			Zn	7440-66-6	3.51E-04			
			Ni	7440-02-0	2.34E-04			
	Nickel alloy bar	0.11%	Cu	7440-50-8	5.00E-07			
			Ni	7440-02-0	8.46E-04			
			C	7440-44-0	6.00E-07			
			Mn	7439-96-5	2.50E-06			
			Fe	7439-89-6	1.50E-04			
			S	7704-34-9	5.00E-08			
			Si	7440-21-3	5.00E-07			
			Cu wire	10.3%	Cu	7440-50-8	0.098	
			Sn plating	0.002%	Sn	7440-31-5	1.71E-05	
			Potting	Epoxy	8.8%	SiO2, amorphous	7631-86-9	0.004
modified aliphatic polyamine	trade secret	0.017						
hydantoin epoxy resin	15336-82-0	0.004						
epichlorohydrin / polyglycol epoxy resin	26142-30-3	0.004						
epichlorohydrin/bisphenol A epoxy resin	unknown	0.050				BPA		
cycloaliphatic epoxy resin	2386-87-0	0.004						
Substrate	Alumina	21.6%				Al2O3	1344-28-1	0.196
			SiO2, amorphous	7631-86-9	0.002			
			TiO2	13463-67-7	0.001			
			FeO2	1345-25-1	0.001			
			MnO2	1313-13-9	0.002			
			MgO	1309-48-4	0.001			
			CaO	1305-78-8	0.001			
			Conductor	AgPd thick film	0.08%	Al2O3	1344-28-1	5.42E-06
SiO2, amorphous	7631-86-9	2.38E-05						
TiO2	13463-67-7	5.42E-06						
PbO	1317-36-8	3.24E-05				Pb in electronic ceramic (RoHS 7c-1)		
ZnO	1314-13-2	5.88E-06						
B2O3	1303-86-2	2.00E-06						
ZrO2	1314-23-4	4.80E-07						
BaO	1304-28-5	6.16E-06						
Ag	7440-22-4	6.46E-04						
Pd	7440-05-3	7.20E-05						
Resistor	Ruthenate thick film	0.11%				Al2O3	1344-28-1	1.33E-05
			SiO2, amorphous	7631-86-9	1.12E-04			
			TiO2	13463-67-7	1.33E-05			
			MnO2	1313-13-9	6.00E-06			
			PbO	1317-36-8	2.92E-04	Pb in electronic ceramic (RoHS 7c-1)		
			ZnO	1314-13-2	3.19E-05			
			B2O3	1303-86-2	3.73E-05			
			ZrO2	1314-23-4	8.95E-06			
			BaO	1304-28-5	1.51E-05			
			Ag	7440-22-4	3.61E-05			
			Pd	7440-05-3	4.59E-05			
			Steatite	14807-96-6	2.00E-06			
			Bi2Ru2O6	unknown	4.50E-05			
			Pb2Ru2O6+x	unknown	4.79E-05	Pb in electronic ceramic (RoHS 7c-1)		
RuO2	12036-10-1	2.10E-05						