

**Model 67 material declaration. BI Technologies Corporation**

11/13/2014

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

No content is banned per E.U. RoHS. Average mass of 67 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	
Terminals	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%	SiO <sub>2</sub> , 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%	Al <sub>2</sub> O <sub>3</sub>
SiO <sub>2</sub> , amorphous	7631-86-9	0.002				
TiO <sub>2</sub>	13463-67-7	0.001				
Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	0.001				
MnO <sub>2</sub>	1313-13-9	0.002				
MgO	1309-48-4	0.001				
CaO	1305-78-8	0.001				
Conductor	AgPd thick film	0.08%				Al <sub>2</sub> O <sub>3</sub>
			SiO <sub>2</sub> , amorphous	7631-86-9	2.38E-05	
			TiO <sub>2</sub>	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	
			B <sub>2</sub> O <sub>3</sub>	1303-86-2	2.00E-06	
			ZrO <sub>2</sub>	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%	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	1.33E-05	
			SiO <sub>2</sub> , amorphous	7631-86-9	1.12E-04	
			TiO <sub>2</sub>	13463-67-7	1.33E-05	
			MnO <sub>2</sub>	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	
			B <sub>2</sub> O <sub>3</sub>	1303-86-2	3.73E-05	
			ZrO <sub>2</sub>	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	
			Pb <sub>2</sub> Ru <sub>2</sub> O <sub>6</sub> +x	unknown	4.79E-05	Pb in electronic ceramic (RoHS 7c-1)
RuO <sub>2</sub>	12036-10-1	2.10E-05				