



Material Declaration

RoHs Compliant: Yes

Device: GRF5710

Conflict Mineral Check: Yes

No.	Part Name	Material Name	Component Wt. (mg)	Material Content (Element)	CAS Number	Element Wt (mg)	PPM in Homogeneous Material	PPM in Total Part
1	Leadframe	Copper Alloy	17.471	Cu	7440-50-8	17.0375	975204	353102
				Fe	7439-89-6	0.4018	22999	8327
				Zn	7440-66-6	0.0262	1500	543
				P	7723-14-0	0.0052	298	108
2	Leadframe Plating	Spot Silver	0.426	Ag	7440-22-4	0.4259	1000000	8827
3	Die Attach Material	Conductive Paste	0.094	Silver Powder	7440-22-4	0.0701	750000	1453
				Resin Epoxy A	9003-36-5	0.0140	150000	291
				Resin Epoxy B	Trade Secret	0.0065	70000	136
				Phenol Resin	Trade Secret	0.0019	20000	39
				Dicyandiamide	461-58-5	0.0009	10000	19
4	Gold Wire	Gold	0.237	Au	7440-57-5	0.2371	999967	4914
				Others	Proprietary	0.0000	33	0
5	Mold Compound	Filled Epoxy	29.347	Epoxy resin A	Trade secret	0.8804	30000	18247
				Epoxy resin B	Trade secret	0.8804	30000	18247
				Phenol resin	Trade secret	0.8804	30000	18247
				Silica(Amorphous) A	60676-86-0	22.0105	750000	456167
				Silica(Amorphous) B	7631-86-9	4.4021	150000	91233
				Metal hydroxide	Trade secret	0.1467	5000	3041
				Carbon Black	1333-86-4	0.1467	5000	3041
6	External Plating	Pure Tin	0.261	Tin	7440-31-5	0.2609	1000000	5407
7	Die	Silicon	0.416	Silicon	7440-21-3	0.4155	1000000	8611
Total Weight =			48.251					

Note:

- (A) Element Wt. Composition is derived from MSDS / Subcon Data
- (B) Component Wt. may be based on assembly of generic parts
- (C) Internal and External Plating weight is based on nominal plating thickness
- (D) Guerrilla RF collaborates closely with our supply chain partners to make reasonable effort of working accuracy of data but in no terms guarantees the degree of accuracy of stated data.

More Info: <https://www.guerrilla-rf.com/environmental>

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