Material Declaration

RoHs Compliant: Yes

Device: GRF7001

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	1.276	Cu	7440-50-8	1.2670	992800	318424
				Cr	7440-47-3	0.0034	2700	866
				Sn	7440-31-5	0.0032	2500	802
				Zn	7440-66-6	0.0026	2000	641
2	Die Attach Material	Conductive Paste	0.023	Silver	7440-22-4	0.0184	800000	4624
				Resin Epoxy A	9003-36-5	0.0023	100000	578
				Resin Epoxy B	Trade Secret	0.0016	70000	405
				Phenol Resin	Trade Secret	0.0005	20000	116
				Dicyandiamide	461-58-5	0.0002	10000	58
3	Gold Wire	Gold	0.026	Au	7440-57-5	0.0264	999900	6634
				Other	Proprietary	0.0000	100	1
4	Internal Plating 1	Nickel	0.00627	Ni	7440-02-0	0.00627	1000000	1576
5	Internal Plating 2	Palladium	0.00051	Pd	7440-05-3	0.00051	1000000	128
6	Internal Plating 3	Gold	0.00002	Au	7440-57-5	0.00002	1000000	5
7	Terminal Plating 1	Nickel	0.00830	Ni	7440-02-0	0.00830	1000000	2086
8	Terminal Plating 2	Palladium	0.00067	Pd	7440-05-3	0.00067	1000000	169
9	Terminal Plating 3	Gold	0.00003	Au	7440-57-5	0.00003	1000000	8
10	Mold Compound	Filled Epoxy	2.503	Epoxy A	Trade Secret	0.0751	30000	18868
				Epoxy B	Trade Secret	0.0751	30000	18868
				Phenol Resin	Trade Secret	0.0751	30000	18868
				Silica (Amorphous) A	60676-86-0	1.8769	750000	471695
				Silica (Amorphous) B	7631-86-9	0.3754	150000	94339
				Metal Hydroxide	Trade Secret	0.0125	5000	3145
				Carbon Black	1333-86-4	0.0125	5000	3145
11	Die 1	GaAs Die	0.135	GaAs	1303-00-0	0.1351	1000000	33953
		Total Weight =	3.979003					

Note:

(A) Element Wt. Composition is derived from MSDS / Subcon Data

(B) Component Wt. 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 acccuracy 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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