



Date: November 1, 2018

Document: C

Rev: 2.0

Marking on device:

**VS1X05G**  
**PPPPPPPPPP**  
**YYWW**

where, VS1X05G = VS1205G or VS1005G

PPPPPPPPPP = Lot ID

YYWW = assembly Year and Week

**Order code:**

VS1205G-Q

VS1005G-Q

**Product Name:**

VS1205G-Q

VS1005G-Q

**Package:**

**QFN88 (10 x 10 x 0.75)**

no	Part Name	Material Name	Component WT (mg)	Material Content (Element)	CAS#	Element Wt (%)	Element WT (mg)	WT% of total unit Wt	ppm
1	Die	Silicon Chip (204x205x8 mils)	13.081	Silicon	7440-21-3	100.00	13.08100	5.686	56864.024
2	Substrate (Lead Frame)	C194(FH)	82.720	Zinc	7440-66-6	0.1050	0.08686	0.038	377.569
				Ferrous	7439-89-6	2.5510	2.11019	0.917	9173.132
				Phosphorus	7723-14-0	0.1470	0.12160	0.053	528.597
				Lead	7439-92-1	0.0009	0.00074	0.000	3.236
				Nickel	7440-02-0	1.7660	1.46084	0.635	6350.353
				Gold	7440-57-5	0.0450	0.03722	0.016	161.815
				Silver	7440-22-4	0.0250	0.02068	0.009	89.897
				Palladium	7440-05-3	0.0600	0.04963	0.022	215.754
				Copper	7440-50-8	95.3000	78.83216	34.269	342688.924
3	Mold Compound	EME G770HC	122.749	Epoxy Resin A	Trade Secret	4.00	4.90996	2.134	21343.940
				Epoxy Resin B	Trade Secret	0.50	0.61375	0.267	2667.993
				Phenol Resin A	Trade Secret	4.00	4.90996	2.134	21343.940
				Phenol Resin B	Trade Secret	0.50	0.61375	0.267	2667.993
				Silica(Amorphous) A	60676-86-0	83.00	101.88167	44.289	442886.759
				Silica(Amorphous) B	7631-86-9	7.50	9.20618	4.002	40019.888
				Carbon Black	1333-86-4	0.50	0.61375	0.267	2667.993
5	Bonding Wire	Pd coated Copper wire (0.8 MIL)	0.820	Copper	7440-50-8	96.50	0.79130	0.344	3439.837
				Palladium	7440-05-3	3.50	0.02870	0.012	124.761
6	Die Attach Material	AP4200	4.290	Silver	7440-22-4	76.50	3.28185	1.427	14266.432
				Formaldehyde, Polymer with (Chloromethyl)Oxirane and Phenol	9003-36-5	14.00	0.60060	0.261	2610.850
				4-Methyl-2-Phenyl-1H-Imidazole	827-43-0	3.00	0.12870	0.056	559.468
				Glycidoxypropyltrimethoxysilane	2530-83-8	0.50	0.02145	0.009	93.245
				Acetate	112-07-2	6.00	0.25740	0.112	1118.936
7	Plating (Solder)	Sn 100%	6.380	Tin (Sn)	7440-31-5	100.00	6.38000	2.773	27734.307
Total Unit Weight =			230.040				230.040	100	1000000