

Material Composition Specification

SOT-523W Case



Device average mass **2.3 mg**
 Fluctuation margin **+/-10%**

Component	Material	Material		Substance	CAS No.	Substance		
		(%wt)	(mg)			(%wt)	(mg)	(ppm)
active device	doped Si	3.02%	0.07	Si	7440-21-3	3.02%	0.07	30,172
bond wire	gold	0.56%	0.013	Au	7440-57-5	0.56%	0.013	5,603
leadframe	alloy 42 w/ copper & silver plating	31.55%	0.732	Fe	7439-89-6	16.16%	0.375	161,638
				Ni	7440-02-0	12.50%	0.29	125,000
				Cu	7440-50-8	2.59%	0.06	25,862
				Ag	7440-22-4	0.30%	0.007	3,017
encapsulation*	EMC GREEN	60.34%	1.4	silica (fused)	60676-86-0	40.22%	0.933	402,155
				epoxy resin	29690-82-2	6.94%	0.161	69,397
				phenol resin	9003-35-4	6.94%	0.161	69,397
				carbon black	1333-86-4	0.22%	0.005	2,155
				metal hydroxide	1309-42-8	6.03%	0.14	60,345
plating	100% matte tin	4.53%	0.105	Sn	7440-31-5	4.53%	0.105	45,259

*EMC GREEN molding compound is Halogen-Free.

Disclaimer

The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

R0 (7-November 2011)