



Material Content Data Sheet



Sales Product Name				IPA60R190C6		Issued		29. August 2013	
MA#				MA001116338					
Package				PG-TO220-3-111		Weight*		2241.48 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	8.148	0.36	0.36	3635	3635	
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307		
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92		
	non noble metal	copper	7440-50-8	686.221	30.61	30.65	306148	306547	
wire	non noble metal	aluminium	7429-90-5	2.404	0.11	0.11	1072	1072	
encapsulation	organic material	carbon black	1333-86-4	2.198	0.10		981		
	plastics	epoxy resin	-	206.601	9.22		92172		
	inorganic material	silicondioxide	60676-86-0	890.141	39.72	49.04	397121	490275	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3543	3543	
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136	
solder	non noble metal	antimony	7440-36-0	0.395	0.02		176		
	noble metal	silver	7440-22-4	0.987	0.04		440		
	non noble metal	tin	7440-31-5	2.567	0.11	0.17	1145	1761	
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193		
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58		
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192780	193031	
*deviation	< 10%			Sum in total:		100.00		1000000	

Important Remarks:

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