



Material Content Data Sheet



Sales Product Name		IPA60R230P6		Issued		29. August 2013		
MA#		MA001132894						
Package		PG-TO220-3-111		Weight*		2241.12 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	6.823	0.30	0.30	3045	3045
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	30.62	30.66	306195	306594
wire	non noble metal	aluminium	7429-90-5	2.660	0.12	0.12	1187	1187
encapsulation	organic material	carbon black	1333-86-4	2.200	0.10		982	
	plastics	epoxy resin	-	206.821	9.23		92284	
	inorganic material	silicondioxide	60676-86-0	891.090	39.76	49.09	397609	490876
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3544	3544
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	0.349	0.02		156	
	noble metal	silver	7440-22-4	0.872	0.04		389	
	non noble metal	tin	7440-31-5	2.268	0.10	0.16	1012	1557
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	192810	193061
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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