



Material Content Data Sheet



Sales Product Name		IPA60R160P6		Issued		29. August 2013		
MA#		MA001134052						
Package		PG-TO220-3-111		Weight*		2237.31 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	9.747	0.44	0.44	4357	4357
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	30.67	30.71	306717	307116
wire	non noble metal	aluminium	7429-90-5	2.624	0.12	0.12	1173	1173
encapsulation	organic material	carbon black	1333-86-4	2.259	0.10		1010	
	plastics	epoxy resin	-	206.151	9.21		92143	
	inorganic material	silicondioxide	60676-86-0	883.948	39.51	48.82	395093	488247
leadfinish	non noble metal	tin	7440-31-5	7.942	0.36	0.36	3550	3550
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	0.455	0.02		203	
	noble metal	silver	7440-22-4	1.136	0.05		508	
	non noble metal	tin	7440-31-5	2.955	0.13	0.20	1321	2032
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	19.31	19.34	193138	193389
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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