

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA60R230P6	**Issued**	17. April 2015
MA#	MA001356050		
Package	PG-TO220-3-111	**Weight***	2240.38 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	3046	3046
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	30.63	30.67	306297	306696
wire	non noble metal	aluminium	7429-90-5	2.660	0.12	0.12	1187	1187
encapsulation	organic material	carbon black	1333-86-4	2.245	0.10		1002	
	plastics	epoxy resin	-	207.164	9.25		92468	
	inorganic material	silicondioxide	60676-86-0	889.864	39.71	49.06	397192	490663
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3589	3589
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	1013	1558
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	19.29	19.32	192874	193125
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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