



Material Content Data Sheet



Sales Product Name		IPA60R600P6		Issued		25. September 2017		
MA#		MA001356278						
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	3.063	0.14	0.14	1367	1367
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	0.699	0.03	0.03	312	312
encapsulation	organic material	carbon black	1333-86-4	2.225	0.10		993	
	plastics	epoxy resin	-	208.146	9.29		92907	
	inorganic material	silicondioxide	60676-86-0	896.114	39.99	49.38	399983	493884
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	0.200	0.01		89	
	noble metal	silver	7440-22-4	0.499	0.02		223	
	non noble metal	tin	7440-31-5	1.297	0.06	0.09	579	891
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 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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