



Material Content Data Sheet



Sales Product Name				IPA60R160P6		Issued		24. January 2018	
MA#				MA001341768					
Package				PG-TO220-3-111		Weight*		2238.34 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	4355	4355	
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	30.66	30.70	306576	306975	
wire	non noble metal	aluminium	7429-90-5	2.624	0.12	0.12	1172	1172	
encapsulation	organic material	carbon black	1333-86-4	2.264	0.10		1011		
	plastics	epoxy resin	-	206.378	9.22		92202		
	inorganic material	silicondioxide	60676-86-0	884.748	39.53	48.85	395269	488482	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3548	3548	
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	395268	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	1320	2031	
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	19.30	19.33	193050	193301	
*deviation	< 10%					Sum in total:	100.00		1000000

Important Remarks:

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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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