



Material Content Data Sheet



Sales Product Name				IPA60R190P6		Issued		16. September 2015	
MA#				MA001137974					
Package				PG-TO220-3-111		Weight*		2240.16 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	8.148	0.36	0.36	3637	3637	
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	306327	306726	
wire	non noble metal	aluminium	7429-90-5	25.943	1.16	1.16	11581	11581	
encapsulation	organic material	carbon black	1333-86-4	2.148	0.10		959		
	plastics	epoxy resin	-	201.910	9.01		90132		
	inorganic material	silicondioxide	60676-86-0	869.932	38.84	47.95	388333	479425	
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	0.395	0.02		176		
	noble metal	silver	7440-22-4	0.987	0.04		441		
	non noble metal	tin	7440-31-5	2.567	0.11	0.17	1146	1763	
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	192892	193143	
*deviation	< 10%					Sum in total:	100.00	1000000	

Important Remarks:

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

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