



Material Content Data Sheet



Sales Product Name				IPA60R199CP		Issued		11. February 2016	
MA#				MA000371137					
Package				PG-TO220-3-121		Weight*		2267.75 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	8.809	0.39	0.39	3884	3884	
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		303		
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91		
	non noble metal	copper	7440-50-8	686.221	30.26	30.30	302601	302995	
wire	non noble metal	aluminium	7429-90-5	26.641	1.17	1.17	11748	11748	
encapsulation	organic material	carbon black	1333-86-4	2.220	0.10		979		
	plastics	epoxy resin	-	207.011	9.13		91285		
	inorganic material	silicondioxide	60676-86-0	890.733	39.28	48.51	392783	485048	
leadfinish	non noble metal	tin	7440-31-5	8.041	0.35	0.35	3546	3546	
plating	non noble metal	nickel	7440-02-0	0.305	0.01		134		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	134	
solder	non noble metal	antimony	7440-36-0	0.420	0.02		185		
	noble metal	silver	7440-22-4	1.049	0.05		463		
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1203	1851	
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191		
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57		
	non noble metal	copper	7440-50-8	432.110	19.05	19.08	190546	190794	
*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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