



Material Content Data Sheet



Sales Product Name				IPA60R299CP		Issued		20. July 2018	
MA#				MA001394946					
Package				PG-TO220-3-313		Weight*		2206.03 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	6.215	0.28	0.28	2817	2817	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		409		
	non noble metal	copper	7440-50-8	902.149	40.89	40.94	408946	409478	
	non noble metal	aluminium	7429-90-5	1.701	0.08	0.08	771	771	
wire	non noble metal	aluminium	7429-90-5	1.701	0.08	0.08	771	771	
encapsulation	organic material	carbon black	1333-86-4	2.319	0.11		1051		
	plastics	epoxy resin	-	214.226	9.71		97109		
	inorganic material	silicondioxide	60676-86-0	920.373	41.71	51.53	417207	515367	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3571	3571	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751	
solder	non noble metal	antimony	7440-36-0	0.328	0.01		149		
	noble metal	silver	7440-22-4	0.820	0.04		372		
	non noble metal	tin	7440-31-5	2.132	0.10	0.15	966	1487	
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	iron	7439-89-6	0.145	0.01		66		
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65672	65758	
*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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