



Material Content Data Sheet



Sales Product Name	IPA50R399CP			Issued		15. June 2015		
MA#	MA001374698							
Package	PG-TO220-3-313			Weight*		2208.77 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	4.846	0.22	0.22	2194	2194
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.84	40.89	408439	408971
wire	non noble metal	aluminium	7429-90-5	0.849	0.04	0.04	385	385
encapsulation	organic material	carbon black	1333-86-4	2.318	0.10		1049	
	plastics	epoxy resin	-	215.103	9.74		97386	
	inorganic material	silicondioxide	60676-86-0	924.874	41.88	51.72	418728	517163
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3611	3611
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	759	759
solder	non noble metal	antimony	7440-36-0	0.274	0.01		124	
	noble metal	silver	7440-22-4	0.686	0.03		310	
	non noble metal	tin	7440-31-5	1.783	0.08	0.12	807	1241
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65590	65676
*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 2011/65/EU (RoHS) and does not use any exemption.

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