



Material Content Data Sheet



Sales Product Name				IPA50R399CP		Issued		27. September 2017	
MA#				MA000904476					
Package				PG-TO220-3-111		Weight*		2245.33 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	2158	2158	
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		306		
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92		
	non noble metal	copper	7440-50-8	686.221	30.56	30.60	305622	306020	
wire	non noble metal	aluminium	7429-90-5	7.086	0.32	0.32	3156	3156	
encapsulation	organic material	carbon black	1333-86-4	2.238	0.10		997		
	plastics	epoxy resin	-	207.644	9.25		92478		
	inorganic material	silicondioxide	60676-86-0	892.739	39.76	49.11	397597	491073	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3537	3537	
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	0.274	0.01		122		
	noble metal	silver	7440-22-4	0.686	0.03		305		
	non noble metal	tin	7440-31-5	1.783	0.08	0.12	794	1221	
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	19.24	19.27	192448	192699	
*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 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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