



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R199CP		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001509878						
<b>Package</b>		PG-TO220-3-317		<b>Weight*</b>		2107.98 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	0.42	0.42	4179	4179
leadframe	non noble metal	iron	7439-89-6	1.202	0.06		570	
	inorganic material	phosphorus	7723-14-0	0.361	0.02		171	
	non noble metal	copper	7440-50-8	1200.685	56.96	57.04	569591	570332
wire	non noble metal	aluminium	7429-90-5	30.600	1.45	1.45	14517	14517
encapsulation	organic material	carbon black	1333-86-4	8.542	0.41		4052	
	plastics	epoxy resin	-	136.677	6.48		64838	
	inorganic material	silicondioxide	60676-86-0	709.012	33.63	40.52	336348	405238
leadfinish	non noble metal	tin	7440-31-5	7.889	0.37	0.37	3742	3742
solder	non noble metal	antimony	7440-36-0	0.420	0.02		199	
	noble metal	silver	7440-22-4	1.050	0.05		498	
	non noble metal	tin	7440-31-5	2.731	0.13	0.20	1295	1992
*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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