



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R199CP		<b>Issued</b>		25. September 2017		
<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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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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