



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP60R199CP		<b>Issued</b>		20. July 2018	
<b>MA#</b>				MA000602882					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2036.79 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	0.43	0.43	4325	4325	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.04	40.09	400303	400825	
wire	non noble metal	aluminium	7429-90-5	29.339	1.44	1.44	14404	14404	
encapsulation	organic material	carbon black	1333-86-4	5.658	0.28		2778		
	plastics	epoxy resin	-	107.510	5.28		52784		
	inorganic material	silicondioxide	60676-86-0	452.675	22.22	27.78	222249	277811	
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10669	10669	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.420	0.02		206		
	noble metal	silver	7440-22-4	1.049	0.05		515		
	non noble metal	tin	7440-31-5	2.727	0.13	0.20	1339	2060	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289409	289786	
*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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