



Material Content Data Sheet



Sales Product Name				IPP50R199CP		Issued		20. July 2018	
MA#				MA000908604					
Package				PG-TO220-3-1		Weight*		2036.32 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	4326	4326	
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	40.06	40.11	400396	400918	
wire	non noble metal	aluminium	7429-90-5	27.545	1.35	1.35	13527	13527	
encapsulation	organic material	carbon black	1333-86-4	5.674	0.28		2787		
	plastics	epoxy resin	-	107.812	5.29		52945		
	inorganic material	silicondioxide	60676-86-0	453.945	22.29	27.86	222924	278656	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10540	10540	
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	28.95	28.99	289476	289853	
*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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