



Material Content Data Sheet



Sales Product Name				IPP60R099CP		Issued		25. September 2017	
MA#				MA001110170					
Package				PG-TO220-3-123		Weight*		2031.76 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	15.501	0.76	0.76	7629	7629	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401294	401817	
wire	non noble metal	aluminium	7429-90-5	2.653	0.13	0.13	1306	1306	
encapsulation	organic material	carbon black	1333-86-4	2.308	0.11		1136		
	plastics	epoxy resin	-	66.929	3.29		32941		
	inorganic material	silicondioxide	60676-86-0	507.738	24.99	28.39	249901	283978	
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10695	10695	
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	879	879	
solder	non noble metal	antimony	7440-36-0	0.649	0.03		319		
	noble metal	silver	7440-22-4	1.621	0.08		798		
	non noble metal	tin	7440-31-5	4.216	0.21	0.32	2075	3192	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290126	290504	
*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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