



Material Content Data Sheet



Sales Product Name				IPP60R190P6		Issued		10. September 2014	
MA#				MA001110164					
Package				PG-TO220-3-1		Weight*		2033.14 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	8.148	0.40	0.40	4007	4007	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.09	40.14	401023	401546	
wire	non noble metal	aluminium	7429-90-5	2.548	0.13	0.13	1253	1253	
encapsulation	organic material	carbon black	1333-86-4	5.902	0.29		2903		
	plastics	epoxy resin	-	112.129	5.52		55151		
	inorganic material	silicondioxide	60676-86-0	472.123	23.22	29.03	232214	290268	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10556	10556	
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	0.395	0.02		194		
	noble metal	silver	7440-22-4	0.987	0.05		486		
	non noble metal	tin	7440-31-5	2.567	0.13	0.20	1263	1943	
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	28.99	29.03	289930	290307	
*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 2011/65/EU (RoHS) and does not use any exemption.

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