



Material Content Data Sheet



Sales Product Name		IPP60R099P6		Issued		10. September 2014		
MA#		MA001137994						
Package		PG-TO220-3-123		Weight*		2031.47 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	7630	7630
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	401352	401875
wire	non noble metal	aluminium	7429-90-5	2.669	0.13	0.13	1314	1314
encapsulation	organic material	carbon black	1333-86-4	2.308	0.11		1136	
	plastics	epoxy resin	-	66.927	3.29		32945	
	inorganic material	silicondioxide	60676-86-0	507.725	24.99	28.39	249930	284011
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	868	868
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	29.02	29.06	290167	290545
*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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