



Material Content Data Sheet



Sales Product Name		IPP65R045C7		Issued		15. July 2016		
MA#		MA001043890						
Package		PG-TO220-3-1		Weight*		2044.92 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	7580	7580
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		399	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	39.86	39.91	398712	399232
wire	non noble metal	aluminium	7429-90-5	77.032	3.77	3.77	37670	37670
encapsulation	organic material	carbon black	1333-86-4	5.176	0.25		2531	
	plastics	epoxy resin	-	98.338	4.81		48089	
	inorganic material	silicondioxide	60676-86-0	414.055	20.25	25.31	202480	253100
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10495	10495
plating	non noble metal	nickel	7440-02-0	0.244	0.01		119	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	119
solder	non noble metal	antimony	7440-36-0	0.648	0.03		317	
	noble metal	silver	7440-22-4	1.619	0.08		792	
	non noble metal	tin	7440-31-5	4.210	0.21	0.32	2059	3168
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		289	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.83	28.87	288260	288636
*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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