



Material Content Data Sheet



Sales Product Name		IPP65R190CFDA		Issued		29. August 2013		
MA#		MA001001686						
Package		PG-TO220-3-1		Weight*		2038.63 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	9.451	0.46	0.46	4636	4636
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		400	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.00	40.05	399940	400461
wire	non noble metal	aluminium	7429-90-5	2.486	0.12	0.12	1219	1219
encapsulation	organic material	carbon black	1333-86-4	8.881	0.44		4357	
	plastics	epoxy resin	-	97.694	4.79		47922	
	inorganic material	silicondioxide	60676-86-0	485.510	23.82	29.05	238155	290434
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10528	10528
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	noble metal	silver	7440-22-4	0.157	0.01		77	
	non noble metal	tin	7440-31-5	0.125	0.01		62	
	non noble metal	lead	7439-92-1	5.989	0.29	0.31	2938	3077
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.91	28.95	289148	289525
*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.

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