



Material Content Data Sheet



Sales Product Name		IPP65R190CFD		Issued		10. August 2018		
MA#		MA002262362						
Package		PG-TO220-3-123		Weight*		2028.79 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	9.459	0.47	0.47	4662	4662
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.18	40.23	401884	402407
	non noble metal	aluminium	7429-90-5	2.547	0.13	0.13	1255	1255
wire	non noble metal	aluminium	7429-90-5	2.547	0.13	0.13	1255	1255
encapsulation	organic material	carbon black	1333-86-4	2.330	0.11		1148	
	plastics	epoxy resin	-	67.569	3.33		33305	
	inorganic material	silicondioxide	60676-86-0	512.595	25.27	28.71	252661	287114
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10579	10579
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.443	0.02		218	
	noble metal	silver	7440-22-4	1.108	0.05		546	
	non noble metal	tin	7440-31-5	2.880	0.14	0.21	1420	2184
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290552	290930
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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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