



Material Content Data Sheet



Sales Product Name		IPP65R190CFD		Issued		10. August 2018		
MA#		MA003261106						
Package		PG-TO220-3-1		Weight*		2033.73 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	4651	4651
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.10	40.15	400905	401426
	non noble metal	aluminium	7429-90-5	2.623	0.13	0.13	1290	1290
wire	non noble metal	aluminium	7429-90-5	2.623	0.13	0.13	1290	1290
encapsulation	organic material	carbon black	1333-86-4	5.889	0.29		2896	
	plastics	epoxy resin	-	111.889	5.50		55017	
	inorganic material	silicondioxide	60676-86-0	471.112	23.16	28.95	231649	289562
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10553	10553
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.442	0.02		218	
	noble metal	silver	7440-22-4	1.106	0.05		544	
	non noble metal	tin	7440-31-5	2.876	0.14	0.21	1414	2176
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	28.98	29.02	289844	290221
*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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