



Material Content Data Sheet



Sales Product Name		IPP60R180P7		Issued		24. January 2018		
MA#		MA001609884						
Package		PG-TO220-3-1		Weight*		2031.38 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	4.174	0.21	0.21	2055	2055
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	40.14	40.19	401369	401892
	non noble metal	aluminium	7429-90-5	2.901	0.14	0.14	1428	1428
wire	non noble metal	aluminium	7429-90-5	2.901	0.14	0.14	1428	1428
encapsulation	organic material	carbon black	1333-86-4	5.935	0.29		2922	
	plastics	epoxy resin	-	112.760	5.55		55509	
	inorganic material	silicondioxide	60676-86-0	474.779	23.37	29.21	233722	292153
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565
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	0.249	0.01		123	
	noble metal	silver	7440-22-4	0.623	0.03		307	
	non noble metal	tin	7440-31-5	1.621	0.08	0.12	798	1228
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	29.02	29.06	290180	290558
*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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