



Material Content Data Sheet



Sales Product Name				IPP60R280P7		Issued		24. January 2018	
MA#				MA002020024					
Package				PG-TO220-3-1		Weight*		2030.56 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	3.030	0.15	0.15	1492	1492	
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	40.16	40.21	401532	402055	
	non noble metal	aluminium	7429-90-5	0.763	0.04	0.04	376	376	
wire	non noble metal	aluminium	7429-90-5	0.763	0.04	0.04	376	376	
encapsulation	organic material	carbon black	1333-86-4	5.964	0.29		2937		
	plastics	epoxy resin	-	113.322	5.58		55808		
	inorganic material	silicondioxide	60676-86-0	477.145	23.50	29.37	234983	293728	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10570	10570	
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	0.199	0.01		98		
	noble metal	silver	7440-22-4	0.498	0.02		246		
	non noble metal	tin	7440-31-5	1.296	0.06	0.09	638	982	
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	29.03	29.07	290298	290676	
*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 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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