



Material Content Data Sheet



Sales Product Name				IPP60R280P7		Issued		20. July 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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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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