



Material Content Data Sheet



Sales Product Name				IPP50R280CE		Issued		25. September 2017	
MA#				MA000992918					
Package				PG-TO220-3-1		Weight*		2031.65 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	4.825	0.24	0.24	2375	2375	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401314	401838	
wire	non noble metal	aluminium	7429-90-5	2.731	0.13	0.13	1344	1344	
encapsulation	organic material	carbon black	1333-86-4	5.930	0.29		2919		
	plastics	epoxy resin	-	112.676	5.55		55460		
	inorganic material	silicondioxide	60676-86-0	474.423	23.35	29.19	233516	291895	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10564	10564	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.273	0.01		135		
	noble metal	silver	7440-22-4	0.683	0.03		336		
	non noble metal	tin	7440-31-5	1.776	0.09	0.13	874	1345	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290141	290519	
*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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