



Material Content Data Sheet



Sales Product Name		IPP50R280CE		Issued		24. January 2018		
MA#		MA001178652						
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	401315	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	401314	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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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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