



Material Content Data Sheet



Sales Product Name		IPP50R280CE		Issued		22. January 2018		
MA#		MA001797240						
Package		PG-TO220-3-123		Weight*		2026.66 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	2381	2381
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.22	40.27	402303	402827
	non noble metal	aluminium	7429-90-5	2.670	0.13	0.13	1318	1318
wire	non noble metal	aluminium	7429-90-5	2.670	0.13	0.13	1318	1318
encapsulation	organic material	carbon black	1333-86-4	2.346	0.12		1158	
	plastics	epoxy resin	-	68.043	3.36		33574	
	inorganic material	silicondioxide	60676-86-0	516.188	25.47	28.95	254698	289430
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10590	10590
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.274	0.01		135	
	noble metal	silver	7440-22-4	0.684	0.03		338	
	non noble metal	tin	7440-31-5	1.779	0.09	0.13	878	1351
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	29.09	29.13	290855	291233
*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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