



Material Content Data Sheet



Sales Product Name		IPP60R180C7		Issued		31. July 2018		
MA#		MA002182492						
Package		PG-TO220-3-123		Weight*		2026.23 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	3.951	0.20	0.20	1950	1950
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	40.23	40.28	402390	402914
	non noble metal	aluminium	7429-90-5	2.620	0.13	0.13	1293	1293
wire	non noble metal	aluminium	7429-90-5	2.620	0.13	0.13	1293	1293
encapsulation	organic material	carbon black	1333-86-4	2.350	0.12		1160	
	plastics	epoxy resin	-	68.141	3.36		33629	
	inorganic material	silicondioxide	60676-86-0	516.928	25.51	28.99	255118	289907
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10592	10592
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.239	0.01		118	
	noble metal	silver	7440-22-4	0.597	0.03		295	
	non noble metal	tin	7440-31-5	1.552	0.08	0.12	766	1179
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	290917	291295
*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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