



Material Content Data Sheet



Sales Product Name		IPP60R060C7		Issued		22. January 2018		
MA#		MA002103712						
Package		PG-TO220-3-123		Weight*		2029.51 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	10.303	0.51	0.51	5077	5077
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	40.18	40.23	401739	402262
	non noble metal	aluminium	7429-90-5	5.193	0.26	0.26	2559	2559
wire	non noble metal	aluminium	7429-90-5	5.193	0.26	0.26	2559	2559
encapsulation	organic material	carbon black	1333-86-4	2.318	0.11		1142	
	plastics	epoxy resin	-	67.212	3.31		33117	
	inorganic material	silicondioxide	60676-86-0	509.883	25.12	28.54	251234	285493
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10575	10575
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.475	0.02		234	
	noble metal	silver	7440-22-4	1.187	0.06		585	
	non noble metal	tin	7440-31-5	3.087	0.15	0.23	1521	2340
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	29.04	29.08	290447	290825
*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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