



Material Content Data Sheet



Sales Product Name		IPP65R190C7		Issued		1. August 2018		
MA#		MA002262364						
Package		PG-TO220-3-123		Weight*		2026.35 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	4.186	0.21	0.21	2066	2066
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	402366	402890
	non noble metal	aluminium	7429-90-5	2.606	0.13	0.13	1286	1286
wire	non noble metal	aluminium	7429-90-5	2.606	0.13	0.13	1286	1286
encapsulation	organic material	carbon black	1333-86-4	2.349	0.12		1159	
	plastics	epoxy resin	-	68.117	3.36		33616	
	inorganic material	silicondioxide	60676-86-0	516.749	25.50	28.98	255015	289790
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	0.249	0.01		123	
	noble metal	silver	7440-22-4	0.622	0.03		307	
	non noble metal	tin	7440-31-5	1.618	0.08	0.12	798	1228
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	290900	291278
*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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