



Material Content Data Sheet



Sales Product Name		IPP60R099C7		Issued		20. July 2018		
MA#		MA002035314						
Package		PG-TO220-3-123		Weight*		2027.51 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	6.630	0.33	0.33	3270	3270
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	40.20	40.25	402135	402659
	non noble metal	aluminium	7429-90-5	2.558	0.13	0.13	1262	1262
wire	non noble metal	aluminium	7429-90-5	2.558	0.13	0.13	1262	1262
encapsulation	organic material	carbon black	1333-86-4	2.340	0.12		1154	
	plastics	epoxy resin	-	67.864	3.35		33471	
	inorganic material	silicondioxide	60676-86-0	514.829	25.39	28.86	253921	288546
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10586	10586
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.344	0.02		170	
	noble metal	silver	7440-22-4	0.859	0.04		424	
	non noble metal	tin	7440-31-5	2.234	0.11	0.17	1102	1696
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	29.07	29.11	290733	291111
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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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