



Material Content Data Sheet



Sales Product Name				IPP60R230P6		Issued		20. July 2018	
MA#				MA001727378					
Package				PG-TO220-3-1		Weight*		2032.60 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	6.823	0.34	0.34	3357	3357	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		402		
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401127	401649	
	non noble metal	aluminium	7429-90-5	2.963	0.15	0.15	1458	1458	
wire	non noble metal	aluminium	7429-90-5	2.963	0.15	0.15	1458	1458	
encapsulation	organic material	carbon black	1333-86-4	5.910	0.29		2908		
	plastics	epoxy resin	-	112.288	5.52		55244		
	inorganic material	silicondioxide	60676-86-0	472.793	23.26	29.07	232605	290757	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10559	10559	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
solder	non noble metal	antimony	7440-36-0	0.349	0.02		172		
	noble metal	silver	7440-22-4	0.872	0.04		429		
	non noble metal	tin	7440-31-5	2.268	0.11	0.17	1116	1717	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	29.00	29.04	290005	290382	
*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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