



Material Content Data Sheet



Sales Product Name				IPP60R190E6		Issued		9. May 2016	
MA#				MA000975686					
Package				PG-TO220-3-1		Weight*		2035.78 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	8.148	0.40	0.40	4002	4002	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400502	401024	
wire	non noble metal	aluminium	7429-90-5	25.489	1.25	1.25	12521	12521	
encapsulation	organic material	carbon black	1333-86-4	5.699	0.28		2799		
	plastics	epoxy resin	-	108.273	5.32		53185		
	inorganic material	silicondioxide	60676-86-0	455.884	22.39	27.99	223936	279920	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10543	10543	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.395	0.02		194		
	noble metal	silver	7440-22-4	0.987	0.05		485		
	non noble metal	tin	7440-31-5	2.567	0.13	0.20	1261	1940	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289553	289930	
*deviation	< 10%			Sum in total:		100.00		1000000	

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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