



Material Content Data Sheet



Sales Product Name				IPP60R450E6		Issued		20. July 2018	
MA#				MA001304298					
Package				PG-TO220-3-1		Weight*		2031.06 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	4.072	0.20	0.20	2005	2005	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401434	401957	
wire	non noble metal	aluminium	7429-90-5	0.718	0.04	0.04	354	354	
encapsulation	organic material	carbon black	1333-86-4	5.955	0.29		2932		
	plastics	epoxy resin	-	113.146	5.57		55708		
	inorganic material	silicondioxide	60676-86-0	476.405	23.46	29.32	234560	293200	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10567	10567	
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	401433	120	
solder	non noble metal	antimony	7440-36-0	0.243	0.01		119		
	noble metal	silver	7440-22-4	0.606	0.03		298		
	non noble metal	tin	7440-31-5	1.576	0.08	0.12	776	1193	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.02	29.06	290226	290604	
*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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