



Material Content Data Sheet



Sales Product Name				IPP60R450E6		Issued		1. August 2018	
MA#				MA001701558					
Package				PG-TO220-3-1		Weight*		2031.07 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	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	iron	7439-89-6	0.816	0.04		402		
	non noble metal	copper	7440-50-8	815.335	40.15	40.20	401431	401954	
	non noble metal	aluminium	7429-90-5	0.779	0.04	0.04	383	383	
wire	non noble metal	aluminium	7429-90-5	0.779	0.04	0.04	383	383	
encapsulation	organic material	carbon black	1333-86-4	5.955	0.29		2932		
	plastics	epoxy resin	-	113.136	5.57		55703		
	inorganic material	silicondioxide	60676-86-0	476.362	23.45	29.31	234539	293174	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10567	10567	
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	0.243	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	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	29.02	29.06	290225	290603	
*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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