



Material Content Data Sheet



Sales Product Name				IPA60R280P6		Issued		4. March 2019	
MA#				MA001727796					
Package				PG-TO220-3-111		Weight*		2237.21 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	5.826	0.26	0.26	2604	2604	
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		92		
	non noble metal	iron	7439-89-6	0.687	0.03		307		
	non noble metal	copper	7440-50-8	686.221	30.67	30.71	306732	307131	
	non noble metal	aluminium	7429-90-5	2.705	0.12	0.12	1209	1209	
wire	non noble metal	aluminium	7429-90-5	2.705	0.12	0.12	1209	1209	
encapsulation	organic material	carbon black	1333-86-4	2.231	0.10		997		
	plastics	epoxy resin	-	206.723	9.24		92403		
	inorganic material	silicondioxide	60676-86-0	888.571	39.73	49.07	397178	490578	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.36	0.36	3550	3550	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	136	137	
solder	non noble metal	antimony	7440-36-0	0.312	0.01		139		
	noble metal	silver	7440-22-4	0.779	0.03		348		
	non noble metal	tin	7440-31-5	2.025	0.09	0.13	905	1392	
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58		
	non noble metal	iron	7439-89-6	0.433	0.02		193		
	non noble metal	copper	7440-50-8	432.110	19.31	19.34	193148	193399	
*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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