



Material Content Data Sheet



Sales Product Name				IPA60R600P6		Issued		4. July 2019	
MA#				MA005342674					
Package				PG-TO220-3-111		Weight*		2238.90 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	3.063	0.14	0.14	1368	1368	
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	30.65	30.69	306499	306898	
	non noble metal	aluminium	7429-90-5	0.727	0.03	0.03	325	325	
wire	non noble metal	aluminium	7429-90-5	0.727	0.03	0.03	325	325	
encapsulation	organic material	carbon black	1333-86-4	2.222	0.10		993		
	plastics	epoxy resin	-	207.887	9.29		92852		
	inorganic material	silicondioxide	60676-86-0	894.975	39.97	49.36	399737	493582	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3547	3547	
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	0.200	0.01		89		
	noble metal	silver	7440-22-4	0.499	0.02		223		
	non noble metal	tin	7440-31-5	1.297	0.06	0.09	579	891	
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	19.30	19.33	193001	193252	
*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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