



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA60R230P6	Issued	09. February 2022
MA#	MA005619016		
Package	PG-TO220-3-313	Weight*	2206.94 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	6.823	0.31	0.31	3092	3092
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.88	40.93	408778	409310
wire	non noble metal	aluminium	7429-90-5	3.744	0.17	0.17	1697	1697
encapsulation	organic material	carbon black	1333-86-4	2.315	0.10		1049	
	plastics	epoxy resin	-	213.849	9.69		96898	
	inorganic material	silicondioxide	60676-86-0	918.801	41.63	51.42	416323	514270
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3569	3569
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.349	0.02		158	
	noble metal	silver	7440-22-4	0.872	0.04		395	
	non noble metal	tin	7440-31-5	2.268	0.10	0.16	1028	1581
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65645	65731
*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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