



Material Content Data Sheet



Halogen-Free

Sales Product Name IPA60R060P7

Issued

14. February 2022

MA# MA005621040

Package PG-TO220-3-313

Weight*

2204.35 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	10.430	0.47	0.47	4731	4731
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.93	40.98	409259	409792
wire	non noble metal	aluminium	7429-90-5	7.092	0.32	0.32	3217	3217
encapsulation	organic material	carbon black	1333-86-4	2.333	0.11		1059	
	plastics	epoxy resin	-	212.242	9.63		96283	
	inorganic material	silicondioxide	60676-86-0	909.534	41.26	51.00	412610	509952
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3573	3573
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.479	0.02		218	
	noble metal	silver	7440-22-4	1.199	0.05		544	
	non noble metal	tin	7440-31-5	3.117	0.14	0.21	1414	2176
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	6.57	6.58	65722	65808
*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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