



Material Content Data Sheet



Halogen-Free

Sales Product Name IPA60R060P7

Issued

21. July 2021

MA# MA005409169

Package PG-TO220-3-253

Weight*

2137.61 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	0.49	0.49	4879	4879
leadframe	inorganic material	phosphorus	7723-14-0	0.429	0.02		201	
	non noble metal	iron	7439-89-6	1.431	0.07		669	
	non noble metal	copper	7440-50-8	1,428.770	66.83	66.92	668397	669267
wire	non noble metal	aluminium	7429-90-5	7.847	0.37	0.37	3671	3671
encapsulation	organic material	carbon black	1333-86-4	3.303	0.15		1545	
	plastics	epoxy resin	-	128.832	6.03		60270	
	inorganic material	silicondioxide	60676-86-0	528.543	24.73	30.91	247260	309075
leadfinish	non noble metal	tin	7440-31-5	21.462	1.00	1.00	10040	10040
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	825	825
solder	non noble metal	antimony	7440-36-0	0.479	0.02		224	
	noble metal	silver	7440-22-4	1.199	0.06		561	
	non noble metal	tin	7440-31-5	3.117	0.15	0.23	1458	2243
*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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