



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA60R190C6	<b>Issued</b>	11. April 2021
<b>MA#</b>	MA005341130		
<b>Package</b>	PG-TO220-3-313	<b>Weight*</b>	2207.17 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	8.148	0.37	0.37	3691	3691
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	40.87	40.92	408736	409268
wire	non noble metal	aluminium	7429-90-5	3.499	0.16	0.16	1585	1585
encapsulation	organic material	carbon black	1333-86-4	2.313	0.10		1048	
	plastics	epoxy resin	-	213.611	9.68		96780	
	inorganic material	silicon dioxide	60676-86-0	917.732	41.58	51.36	415796	513624
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	0.395	0.02		179	
	noble metal	silver	7440-22-4	0.987	0.04		447	
	non noble metal	tin	7440-31-5	2.567	0.12	0.18	1163	1789
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	65638	65724
*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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