



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA60R180P7	<b>Issued</b>	11. April 2021
<b>MA#</b>	MA001976914		
<b>Package</b>	PG-TO220-3-253	<b>Weight*</b>	2134.81 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	4.174	0.20	0.20	1955	1955
leadframe	inorganic material	phosphorus	7723-14-0	0.429	0.02		201	
	non noble metal	iron	7439-89-6	1.431	0.07		670	
	non noble metal	copper	7440-50-8	1,428.770	66.91	67.00	669273	670144
wire	non noble metal	aluminium	7429-90-5	3.786	0.18	0.18	1773	1773
encapsulation	organic material	carbon black	1333-86-4	3.352	0.16		1570	
	plastics	epoxy resin	-	130.747	6.12		61246	
	inorganic material	silicondioxide	60676-86-0	536.399	25.13	31.41	251264	314080
leadfinish	non noble metal	tin	7440-31-5	21.462	1.01	1.01	10054	10054
plating	non noble metal	nickel	7440-02-0	1.764	0.08	0.08	826	826
solder	non noble metal	antimony	7440-36-0	0.249	0.01		117	
	noble metal	silver	7440-22-4	0.623	0.03		292	
	non noble metal	tin	7440-31-5	1.621	0.08	0.12	759	1168
*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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