



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPA60R199CP

**Issued**

09. February 2022

**MA#** MA005618771

**Package** PG-TO220-3-313

**Weight\***

2206.25 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	8.809	0.40	0.40	3993	3993
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	40.89	40.94	408908	409440
wire	non noble metal	aluminium	7429-90-5	3.681	0.17	0.17	1668	1668
encapsulation	organic material	carbon black	1333-86-4	2.320	0.11		1052	
	plastics	epoxy resin	-	213.353	9.67		96704	
	inorganic material	silicondioxide	60676-86-0	915.967	41.50	51.28	415169	512925
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.420	0.02		190	
	noble metal	silver	7440-22-4	1.049	0.05		475	
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1236	1901
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	65666	65752
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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