



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA60R199CP	Issued	17. February 2022
MA#	MA005619866		
Package	PG-TO220-3-313	Weight*	2206.26 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	408906	409438
wire	non noble metal	aluminium	7429-90-5	3.747	0.17	0.17	1698	1698
encapsulation	organic material	carbon black	1333-86-4	2.320	0.11		1051	
	plastics	epoxy resin	-	213.343	9.67		96699	
	inorganic material	silicondioxide	60676-86-0	915.922	41.50	51.28	415148	512898
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	65665	65751
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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