

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA60R299CP	**Issued**	09. February 2022
MA#	MA005618795		
Package	PG-TO220-3-313	**Weight***	2206.45 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	6.215	0.28	0.28	2817	2817
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	408869	409401
wire	non noble metal	aluminium	7429-90-5	2.107	0.10	0.10	955	955
encapsulation	organic material	carbon black	1333-86-4	2.319	0.11		1051	
	plastics	epoxy resin	-	214.228	9.71		97092	
	inorganic material	silicondioxide	60676-86-0	920.379	41.69	51.51	417132	515275
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	750	750
solder	non noble metal	antimony	7440-36-0	0.328	0.01		149	
	noble metal	silver	7440-22-4	0.820	0.04		372	
	non noble metal	tin	7440-31-5	2.132	0.10	0.15	966	1487
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	65659	65745
*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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