

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA60R190P6	**Issued**	02. June 2021
MA#	MA001367830		
Package	PG-TO220-3-313	**Weight***	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	silicondioxide	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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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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