

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA80R1K4P7	**Issued**	06. April 2021
MA#	MA002116530		
Package	PG-TO220-3-313	**Weight***	2208.30 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	1.500	0.07	0.07	679	679
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	40.85	40.90	408526	409058
wire	non noble metal	aluminium	7429-90-5	0.783	0.04	0.04	354	354
encapsulation	organic material	carbon black	1333-86-4	2.302	0.10		1043	
	plastics	epoxy resin	-	215.696	9.77		97675	
	inorganic material	silicondioxide	60676-86-0	928.822	42.05	51.92	420605	519323
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3567	3567
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.128	0.01		58	
	noble metal	silver	7440-22-4	0.319	0.01		145	
	non noble metal	tin	7440-31-5	0.830	0.04	0.06	376	579
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	65604	65690
*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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