



Material Content Data Sheet



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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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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