



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA80R450P7	Issued	14. February 2022
MA#	MA005621077		
Package	PG-TO220-3-313	Weight*	2208.29 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	3.428	0.16	0.16	1552	1552
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	408529	409061
wire	non noble metal	aluminium	7429-90-5	3.683	0.17	0.17	1668	1668
encapsulation	organic material	carbon black	1333-86-4	2.303	0.10		1043	
	plastics	epoxy resin	-	214.751	9.72		97248	
	inorganic material	silicondioxide	60676-86-0	924.033	41.85	51.67	418439	516730
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	0.217	0.01		98	
	noble metal	silver	7440-22-4	0.542	0.02		245	
	non noble metal	tin	7440-31-5	1.408	0.06	0.09	638	981
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	65605	65691
*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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