



Material Content Data Sheet



Sales Product Name		IPA80R450P7		Issued		1. August 2018		
MA#		MA002059172						
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	408530	409062
	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1340	1340
wire	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1340	1340
encapsulation	organic material	carbon black	1333-86-4	2.298	0.10		1040	
	plastics	epoxy resin	-	214.810	9.73		97275	
	inorganic material	silicondioxide	60676-86-0	924.704	41.88	51.71	418742	517057
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	0.00		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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