



Material Content Data Sheet



Sales Product Name				IPP50R500CE		Issued		1. August 2018	
MA#				MA001804150					
Package				PG-TO220-3-123		Weight*		2025.47 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	2.939	0.15	0.15	1451	1451	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	iron	7439-89-6	0.816	0.04		403		
	non noble metal	copper	7440-50-8	815.335	40.26	40.31	402541	403065	
	non noble metal	aluminium	7429-90-5	0.705	0.03	0.03	348	348	
wire	non noble metal	aluminium	7429-90-5	0.705	0.03	0.03	348	348	
encapsulation	organic material	carbon black	1333-86-4	2.360	0.12		1165		
	plastics	epoxy resin	-	68.443	3.38		33791		
	inorganic material	silicondioxide	60676-86-0	519.226	25.63	29.13	256349	291305	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10596	10596	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871	
solder	non noble metal	antimony	7440-36-0	0.194	0.01		96		
	noble metal	silver	7440-22-4	0.485	0.02		240		
	non noble metal	tin	7440-31-5	1.262	0.06	0.09	623	959	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		291		
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	291027	291405	
*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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