



Material Content Data Sheet



Sales Product Name				IPP50R299CP		Issued		20. July 2018	
MA#				MA001604990					
Package				PG-TO220-3-123		Weight*		2027.18 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	6.215	0.31	0.31	3066	3066	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		403		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.20	40.25	402201	402725	
wire	non noble metal	aluminium	7429-90-5	1.474	0.07	0.07	727	727	
encapsulation	organic material	carbon black	1333-86-4	2.345	0.12		1157		
	plastics	epoxy resin	-	68.018	3.36		33553		
	inorganic material	silicondioxide	60676-86-0	515.995	25.45	28.93	254538	289248	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10587	10587	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870	
solder	non noble metal	antimony	7440-36-0	0.328	0.02		162		
	noble metal	silver	7440-22-4	0.820	0.04		404		
	non noble metal	tin	7440-31-5	2.132	0.11	0.17	1052	1618	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.08	29.12	290781	291159	
*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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