



Material Content Data Sheet



Sales Product Name				IPP50R299CP		Issued		20. July 2018	
MA#				MA000907570					
Package				PG-TO220-3-1		Weight*		2033.53 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	3056	3056	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.08	40.13	400945	401467	
wire	non noble metal	aluminium	7429-90-5	13.330	0.66	0.66	6555	6555	
encapsulation	organic material	carbon black	1333-86-4	5.824	0.29		2864		
	plastics	epoxy resin	-	110.651	5.44		54413		
	inorganic material	silicondioxide	60676-86-0	465.897	22.91	28.64	229108	286385	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10554	10554	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.328	0.02		161		
	noble metal	silver	7440-22-4	0.820	0.04		403		
	non noble metal	tin	7440-31-5	2.132	0.10	0.16	1048	1612	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.99	29.03	289874	290251	
*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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