



Material Content Data Sheet



Sales Product Name				IPP110N20N3 G		Issued		20. July 2018	
MA#				MA001641486					
Package				PG-TO220-3-123		Weight*		2033.50 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	17.562	0.86	0.86	8637	8637	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		401		
	non noble metal	copper	7440-50-8	815.335	40.08	40.13	400953	401474	
	non noble metal	aluminium	7429-90-5	11.509	0.57	0.57	5660	5660	
wire	non noble metal	aluminium	7429-90-5	11.509	0.57	0.57	5660	5660	
encapsulation	organic material	carbon black	1333-86-4	2.269	0.11		1116		
	plastics	epoxy resin	-	65.814	3.24		32365		
	inorganic material	silicondioxide	60676-86-0	499.281	24.55	27.90	245529	279010	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10554	10554	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867	
solder	non noble metal	antimony	7440-36-0	0.720	0.04		354		
	noble metal	silver	7440-22-4	1.801	0.09		886		
	non noble metal	tin	7440-31-5	4.682	0.23	0.36	2303	3543	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	28.99	29.03	289878	290255	
*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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