



Material Content Data Sheet



Sales Product Name				IPI60R199CP		Issued		20. July 2018	
MA#				MA000602826					
Package				PG-TO262-3-1		Weight*		1573.93 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	8.809	0.56	0.56	5597	5597	
leadframe	non noble metal	iron	7439-89-6	0.851	0.05		541		
	inorganic material	phosphorus	7723-14-0	0.255	0.02		162		
	non noble metal	copper	7440-50-8	849.682	53.98	54.05	539848	540552	
wire	non noble metal	aluminium	7429-90-5	27.190	1.73	1.73	17275	17275	
encapsulation	organic material	carbon black	1333-86-4	5.610	0.36		3564		
	plastics	epoxy resin	-	106.586	6.77		67720		
	inorganic material	silicondioxide	60676-86-0	448.782	28.51	35.64	285135	356419	
leadfinish	non noble metal	tin	7440-31-5	15.388	0.98	0.98	9777	9777	
plating	non noble metal	nickel	7440-02-0	0.228	0.01		145		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	145	
solder	non noble metal	antimony	7440-36-0	0.420	0.03		267		
	noble metal	silver	7440-22-4	1.049	0.07		666		
	non noble metal	tin	7440-31-5	2.727	0.17	0.27	1733	2666	
heatspreader	non noble metal	iron	7439-89-6	0.106	0.01		68		
	inorganic material	phosphorus	7723-14-0	0.032	0.00		20		
	non noble metal	copper	7440-50-8	106.210	6.75	6.76	67481	67569	
*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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