



Material Content Data Sheet



Sales Product Name		IPW60R199CP		Issued		1. August 2018		
MA#		MA001674916						
Package		PG-TO247-3-44		Weight*		6048.82 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	0.15	0.15	1456	1456
leadframe	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	iron	7439-89-6	0.530	0.01		88	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87466	87580
	non noble metal	aluminium	7429-90-5	4.173	0.07	0.07	690	690
wire	non noble metal	aluminium	7429-90-5	4.173	0.07	0.07	690	690
encapsulation	organic material	carbon black	1333-86-4	19.985	0.33		3304	
	plastics	epoxy resin	-	379.708	6.28		62774	
	inorganic material	silicondioxide	60676-86-0	1598.770	26.43	33.04	264311	330389
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5270	5270
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4805	4805
solder	non noble metal	antimony	7440-36-0	0.420	0.01		69	
	noble metal	silver	7440-22-4	1.049	0.02		173	
	non noble metal	tin	7440-31-5	2.727	0.05	0.08	451	693
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.81	56.89	568377	569117
*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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