



Material Content Data Sheet



Sales Product Name		IPW60R190P6		Issued		4. July 2019		
MA#		MA005338586						
Package		PG-TO247-3-44		Weight*		6048.50 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	8.148	0.13	0.13	1347	1347
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	87471	87585
	non noble metal	aluminium	7429-90-5	4.036	0.07	0.07	667	667
wire	non noble metal	aluminium	7429-90-5	4.036	0.07	0.07	667	667
encapsulation	organic material	carbon black	1333-86-4	19.992	0.33		3305	
	plastics	epoxy resin	-	379.846	6.28		62800	
	inorganic material	silicondioxide	60676-86-0	1599.351	26.44	33.05	264422	330527
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	0.395	0.01		65	
	noble metal	silver	7440-22-4	0.987	0.02		163	
	non noble metal	tin	7440-31-5	2.567	0.04	0.07	424	652
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	56.83	56.91	568407	569147
*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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