



Material Content Data Sheet



Sales Product Name				IPW60R190P6		Issued		27. September 2017	
MA#				MA001132224					
Package				PG-TO247-3-41		Weight*		6048.52 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	non noble metal	iron	7439-89-6	0.530	0.01		88		
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26		
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87471	87585	
wire	non noble metal	aluminium	7429-90-5	4.236	0.07	0.07	700	700	
encapsulation	organic material	carbon black	1333-86-4	19.990	0.33		3305		
	plastics	epoxy resin	-	379.812	6.28		62794		
	inorganic material	silicondioxide	60676-86-0	1599.210	26.44	33.05	264397	330496	
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	568405	569145	
*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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