



Material Content Data Sheet



Sales Product Name		IPW60R299CP		Issued		20. July 2018		
MA#		MA001790322						
Package		PG-TO247-3-41		Weight*		6047.49 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	6.215	0.10	0.10	1028	1028
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	87485	87599
	non noble metal	aluminium	7429-90-5	2.595	0.04	0.04	429	429
wire	non noble metal	aluminium	7429-90-5	2.595	0.04	0.04	429	429
encapsulation	organic material	carbon black	1333-86-4	20.022	0.33		3311	
	plastics	epoxy resin	-	380.422	6.29		62906	
	inorganic material	silicondioxide	60676-86-0	1601.777	26.49	33.11	264866	331083
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5271	5271
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4806	4806
solder	non noble metal	antimony	7440-36-0	0.328	0.01		54	
	noble metal	silver	7440-22-4	0.820	0.01		136	
	non noble metal	tin	7440-31-5	2.132	0.04	0.06	353	543
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	56.84	56.92	568501	569241
*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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