



Material Content Data Sheet



Sales Product Name				IPW60R299CP		Issued		27. September 2017	
MA#				MA000374508					
Package				PG-TO247-3-21		Weight*		5998.91 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	1036	1036	
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	8.82	8.83	88194	88308	
wire	non noble metal	aluminium	7429-90-5	22.885	0.38	0.38	3815	3815	
encapsulation	organic material	carbon black	1333-86-4	21.259	0.35		3544		
	inorganic material	antimonytrioxide	1309-64-4	44.450	0.74		7410		
	plastics	brominated resin	-	50.247	0.84		8376		
	plastics	epoxy resin	-	367.193	6.12		61210		
	inorganic material	silicondioxide	60676-86-0	1449.446	24.16	32.21	241618	322158	
leadfinish	non noble metal	tin	7440-31-5	32.273	0.54	0.54	5380	5380	
plating	non noble metal	nickel	7440-02-0	29.428	0.49	0.49	4906	4906	
solder	non noble metal	antimony	7440-36-0	0.328	0.01		55		
	noble metal	silver	7440-22-4	0.820	0.01		137		
	non noble metal	tin	7440-31-5	2.132	0.04	0.06	355	547	
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		172		
	non noble metal	iron	7439-89-6	3.442	0.06		574		
	non noble metal	copper	7440-50-8	3438.006	57.31	57.39	573104	573850	
*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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