



Material Content Data Sheet



Sales Product Name		IPW60R199CP		Issued		19. February 2016		
MA#		MA000374775						
Package		PG-TO247-3-21		Weight*		6002.87 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	1467	1467
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	8.81	8.82	88136	88250
wire	non noble metal	aluminium	7429-90-5	42.787	0.71	0.71	7128	7128
encapsulation	organic material	carbon black	1333-86-4	21.045	0.35		3506	
	inorganic material	antimonytrioxide	1309-64-4	44.002	0.73		7330	
	plastics	brominated resin	-	49.742	0.83		8286	
	plastics	epoxy resin	-	363.497	6.06		60554	
	inorganic material	silicondioxide	60676-86-0	1434.857	23.90	31.87	239029	318705
leadfinish	non noble metal	tin	7440-31-5	32.273	0.54	0.54	5376	5376
plating	non noble metal	nickel	7440-02-0	29.428	0.49	0.49	4902	4902
solder	non noble metal	antimony	7440-36-0	0.420	0.01		70	
	noble metal	silver	7440-22-4	1.049	0.02		175	
	non noble metal	tin	7440-31-5	2.727	0.05	0.08	454	699
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		172	
	non noble metal	iron	7439-89-6	3.442	0.06		573	
	non noble metal	copper	7440-50-8	3438.006	57.26	57.34	572728	573473
*deviation	< 10%					Sum in total:	100.00	1000000

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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