



## Material Content Data Sheet



Sales Product Name	IPP60R040C7			Issued		28. October 2019		
MA#	MA001616164							
Package	PG-TO220-3-1			Weight*		2039.26 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	15.501	0.76	0.76	7601	7601
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.98	40.03	399819	400339
wire	non noble metal	aluminium	7429-90-5	11.144	0.55	0.55	5464	5464
encapsulation	organic material	carbon black	1333-86-4	5.778	0.28		2833	
	plastics	epoxy resin	-	109.782	5.38		53834	
	inorganic material	silicondioxide	60676-86-0	462.242	22.67	28.33	226671	283338
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10525	10525
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.648	0.03		318	
	noble metal	silver	7440-22-4	1.619	0.08		794	
	non noble metal	tin	7440-31-5	4.210	0.21	0.32	2065	3177
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.91	28.95	289059	289435
*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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