



Material Content Data Sheet



Sales Product Name		IPA65R190CFD		Issued		26. September 2017		
MA#		MA001039164						
Package		PG-TO220-3-111		Weight*		2261.18 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	9.459	0.42	0.42	4183	4183
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	iron	7439-89-6	0.687	0.03		304	
	non noble metal	copper	7440-50-8	686.221	30.35	30.39	303480	303875
	non noble metal	aluminium	7429-90-5	2.563	0.11	0.11	1133	1133
wire	non noble metal	aluminium	7429-90-5	2.563	0.11	0.11	1133	1133
encapsulation	organic material	carbon black	1333-86-4	2.251	0.10		996	
	plastics	epoxy resin	-	210.131	9.29		92930	
	inorganic material	silicondioxide	60676-86-0	904.313	39.99	49.38	399930	493856
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3512	3512
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	135	136
solder	non noble metal	antimony	7440-36-0	0.442	0.02		196	
	noble metal	silver	7440-22-4	1.106	0.05		489	
	non noble metal	tin	7440-31-5	2.876	0.13	0.20	1272	1957
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	iron	7439-89-6	0.433	0.02		191	
	non noble metal	copper	7440-50-8	432.110	19.11	19.14	191100	191348
*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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