



Material Content Data Sheet



Sales Product Name		IPA65R110CFD		Issued		26. September 2017		
MA#		MA001033154						
Package		PG-TO220-3-111		Weight*		2269.51 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	0.68	0.68	6830	6830
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	iron	7439-89-6	0.687	0.03		303	
	non noble metal	copper	7440-50-8	686.221	30.24	30.28	302365	302759
	non noble metal	aluminium	7429-90-5	2.630	0.12	0.12	1159	1159
wire	non noble metal	aluminium	7429-90-5	2.630	0.12	0.12	1159	1159
encapsulation	organic material	carbon black	1333-86-4	2.252	0.10		992	
	plastics	epoxy resin	-	210.169	9.26		92606	
	inorganic material	silicondioxide	60676-86-0	904.450	39.84	49.20	398520	492118
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3499	3499
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	134	135
solder	non noble metal	antimony	7440-36-0	0.648	0.03		285	
	noble metal	silver	7440-22-4	1.619	0.07		714	
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1855	2854
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	19.04	19.07	190398	190646
*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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