



Material Content Data Sheet



Sales Product Name		IPA50R199CP		Issued		29. August 2013		
MA#		MA000904224						
Package		PG-TO220-3-111		Weight*		2241.64 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	0.39	0.39	3930	3930
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.61	30.65	306124	306523
wire	non noble metal	aluminium	7429-90-5	2.677	0.12	0.12	1194	1194
encapsulation	organic material	carbon black	1333-86-4	2.196	0.10		980	
	plastics	epoxy resin	-	206.410	9.21		92080	
	inorganic material	silicondioxide	60676-86-0	889.319	39.67	48.98	396725	489786
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3543	3543
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.420	0.02		187	
	noble metal	silver	7440-22-4	1.049	0.05		468	
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1217	1872
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192765	193016
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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