



Material Content Data Sheet



Sales Product Name		IPA50R299CP		Issued		20. July 2018		
MA#		MA000908596						
Package		PG-TO220-3-111		Weight*		2250.34 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	6.215	0.28	0.28	2762	2762
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		305	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.49	30.53	304940	305337
wire	non noble metal	aluminium	7429-90-5	13.022	0.58	0.58	5787	5787
encapsulation	organic material	carbon black	1333-86-4	2.247	0.10		999	
	plastics	epoxy resin	-	207.271	9.21		92106	
	inorganic material	silicondioxide	60676-86-0	890.275	39.57	48.88	395617	488723
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3529	3529
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	0.328	0.01		146	
	noble metal	silver	7440-22-4	0.820	0.04		364	
	non noble metal	tin	7440-31-5	2.132	0.09	0.14	947	1457
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		192	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.20	19.23	192019	192269
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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