



Material Content Data Sheet



Sales Product Name		IPP120P04P4L-03		Issued		20. July 2018		
MA#		MA000893820						
Package		PG-TO220-3-1		Weight*		2036.79 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	5.301	0.26	0.26	2603	2603
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400302	400823
wire	non noble metal	aluminium	7429-90-5	9.886	0.49	0.49	4854	4854
encapsulation	organic material	carbon black	1333-86-4	8.840	0.43		4340	
	plastics	epoxy resin	-	97.243	4.77		47743	
	inorganic material	silicondioxide	60676-86-0	483.269	23.73	28.93	237270	289353
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10537	10537
plating	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
solder	noble metal	silver	7440-22-4	0.098	0.00		48	
	non noble metal	tin	7440-31-5	0.078	0.00		38	
	non noble metal	lead	7439-92-1	3.741	0.18	0.18	1837	1923
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289409	289786
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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