



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP020N06N	Issued	17. February 2022
MA#	MA005698498		
Package	PG-TO220-3-1	Weight*	2038.83 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	3.699	0.18	0.18	1814	1814
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	40.00	40.05	399903	400423
wire	non noble metal	aluminium	7429-90-5	13.379	0.66	0.66	6562	6562
encapsulation	inorganic material	zinc oxide	1314-13-2	5.900	0.29		2894	
	miscellaneous	miscellaneous	-	23.600	1.16		11575	
	plastics	epoxy resin	-	88.500	4.34		43407	
	inorganic material	silicon dioxide	60676-86-0	472.002	23.15	28.94	231507	289383
lead finish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10527	10527
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	tin	7440-31-5	0.068			33	
	noble metal	silver	7440-22-4	0.085			42	
	non noble metal	lead	7439-92-1	3.258	0.16	0.16	1598	1673
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.91	28.95	289120	289497
*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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