



Material Content Data Sheet



Sales Product Name		SPP12N50C3		Issued		31. July 2018		
MA#		MA000705370						
Package		PG-TO220-3-1		Weight*		2032.49 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	7.017	0.35	0.35	3453	3453
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401150	401672
	non noble metal	aluminium	7429-90-5	1.381	0.07	0.07	679	679
wire	non noble metal	aluminium	7429-90-5	1.381	0.07	0.07	679	679
encapsulation	organic material	carbon black	1333-86-4	5.922	0.29		2914	
	plastics	epoxy resin	-	112.522	5.54		55362	
	inorganic material	silicondioxide	60676-86-0	473.776	23.31	29.14	233101	291377
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10560	10560
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.353	0.02		174	
	noble metal	silver	7440-22-4	0.883	0.04		435	
	non noble metal	tin	7440-31-5	2.296	0.11	0.17	1130	1739
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	29.00	29.04	290022	290399
*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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