



Material Content Data Sheet



Halogen-Free

Sales Product Name	SPP20N60C3	Issued	01. April 2021
MA#	MA001425154		
Package	PG-TO220-3-1	Weight*	2035.71 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	12.312	0.60	0.60	6048	6048
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400515	401036
wire	non noble metal	aluminium	7429-90-5	3.699	0.18	0.18	1817	1817
encapsulation	organic material	carbon black	1333-86-4	5.860	0.29		2879	
	plastics	epoxy resin	-	111.339	5.47		54693	
	inorganic material	silicondioxide	60676-86-0	468.798	23.03	28.79	230287	287859
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10543	10543
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	antimony	7440-36-0	0.537	0.03		264	
	noble metal	silver	7440-22-4	1.342	0.07		659	
	non noble metal	tin	7440-31-5	3.489	0.17	0.27	1714	2637
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	28.96	29.00	289562	289939
*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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