



Material Content Data Sheet



Halogen-Free

Sales Product Name	SPP17N80C3	Issued	16. April 2021
MA#	MA005405315		
Package	PG-TO220-3-123	Weight*	2040.08 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	12.969	0.64	0.64	6357	6357
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	39.96	40.01	399659	400179
wire	non noble metal	aluminium	7429-90-5	3.213	0.16	0.16	1575	1575
encapsulation	organic material	carbon black	1333-86-4	2.942	0.14		1442	
	miscellaneous	miscellaneous	-	2.942	0.14		1442	
	organic material	phenol formaldehyde resin	9003-35-4	35.308	1.73		17307	
	inorganic material	silicondioxide	14808-60-7	47.077	2.31		23076	
	non noble metal	metal hydroxide	-	47.077	2.31		23076	
	plastics	epoxy resin	29690-82-2	70.616	3.46		34614	
	inorganic material	silicondioxide	60676-86-0	382.504	18.75	28.84	187495	288452
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10520	10520
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	864	864
solder	non noble metal	antimony	7440-36-0	0.558	0.03		273	
	noble metal	silver	7440-22-4	1.395	0.07		684	
	non noble metal	tin	7440-31-5	3.626	0.18	0.28	1777	2734
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.89	28.93	288943	289319
*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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