



Material Content Data Sheet



Halogen-Free

Sales Product Name	SPP20N60S5	Issued	25. June 2021
MA#	MA005562919		
Package	PG-TO220-3-321	Weight*	1927.95 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	12.785	0.66	0.66	6631	6631
leadframe	inorganic material	phosphorus	7723-14-0	0.436	0.02		226	
	non noble metal	iron	7439-89-6	1.455	0.08		755	
	non noble metal	copper	7440-50-8	1,452.764	75.35	75.45	753530	754511
wire	non noble metal	aluminium	7429-90-5	3.059	0.16	0.16	1587	1587
encapsulation	organic material	carbon black	1333-86-4	2.222	0.12		1152	
	inorganic material	zinc borate	-	42.217	2.19		21897	
	plastics	epoxy resin	-	88.877	4.61		46099	
	inorganic material	silicondioxide	60676-86-0	311.070	16.13	23.05	161348	230496
leadfinish	non noble metal	tin	7440-31-5	7.542	0.39	0.39	3912	3912
solder	non noble metal	antimony	7440-36-0	0.552	0.03		286	
	noble metal	silver	7440-22-4	1.380	0.07		716	
	non noble metal	tin	7440-31-5	3.588	0.19	0.29	1861	2863
*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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