

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPP04N60C3	**Issued**	16. May 2021
MA#	MA005405655		
Package	PG-TO220-3-123	**Weight***	2034.97 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	3.279	0.16	0.16	1611	1611
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	400663	401184
wire	non noble metal	aluminium	7429-90-5	0.709	0.03	0.03	348	348
encapsulation	organic material	carbon black	1333-86-4	2.995	0.15		1472	
	miscellaneous	miscellaneous	-	2.995	0.15		1472	
	organic material	phenol formaldehyde resin	9003-35-4	35.942	1.77		17662	
	inorganic material	silicondioxide	14808-60-7	47.923	2.36		23550	
	non noble metal	metal hydroxide	-	47.923	2.36		23550	
	plastics	epoxy resin	29690-82-2	71.884	3.53		35324	
	inorganic material	silicondioxide	60676-86-0	389.372	19.13	29.45	191341	294371
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10547	10547
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.209	0.01		103	
	noble metal	silver	7440-22-4	0.522	0.03		256	
	non noble metal	tin	7440-31-5	1.357	0.07	0.11	667	1026
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	28.97	29.01	289669	290046
*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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