



Material Content Data Sheet



Halogen-Free

Sales Product Name	SP400-11-11	Issued	11. August 2021
MA#	MA005407848		
Package	PG-DSOSP-14-82	Weight*	216.51 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	6.059	2.80	2.80	27987	27987
chip_2	inorganic material	silicon	7440-21-3	1.471	0.68	0.68	6792	6792
leadframe	inorganic material	phosphorus	7723-14-0	0.012	0.01		55	
	non noble metal	zinc	7440-66-6	0.047	0.02		219	
	non noble metal	iron	7439-89-6	0.949	0.44		4383	
	non noble metal	copper	7440-50-8	38.528	17.80	18.27	177952	182609
wire	noble metal	gold	7440-57-5	0.388	0.18	0.18	1793	1793
encapsulation	organic material	carbon black	1333-86-4	0.319	0.15		1472	
	plastics	silicone resin	-	6.523	3.01		30126	
	plastics	epoxy resin	-	17.211	7.95		79492	
	inorganic material	silicondioxide	60676-86-0	141.828	65.50	76.61	655071	766161
leadfinish	noble metal	silver	7440-22-4	0.000			2	
	noble metal	palladium	7440-05-3	0.001			3	
	noble metal	gold	7440-57-5	0.001			4	
	non noble metal	nickel	7440-02-0	0.917	0.42	0.42	4235	4244
plating	noble metal	silver	7440-22-4	0.001			3	
	noble metal	palladium	7440-05-3	0.001			4	
	noble metal	gold	7440-57-5	0.001			6	
	non noble metal	nickel	7440-02-0	1.317	0.61	0.61	6081	6094
glue	organic material	carbon black	1333-86-4	0.005			22	
	inorganic material	alumina	1344-28-1	0.112	0.05		518	
	inorganic material	silicondioxide	60676-86-0	0.168	0.08		778	
	plastics	silicone	-	0.650	0.30	0.43	3002	4320
*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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