



Material Content Data Sheet



Halogen-Free

Sales Product Name	SAK-C164CI-8EM DB	Issued	10. May 2021
MA#	MA001629788		
Package	PG-MQFP-80-10	Weight*	980.71 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	52.594	5.36	5.36	53628	53628
leadframe	inorganic material	phosphorus	7723-14-0	0.071	0.01		72	
	non noble metal	zinc	7440-66-6	0.282	0.03		288	
	non noble metal	iron	7439-89-6	5.642	0.58		5753	
	non noble metal	copper	7440-50-8	229.084	23.36	23.98	233589	239702
wire	noble metal	gold	7440-57-5	1.252	0.13	0.13	1277	1277
encapsulation	organic material	carbon black	1333-86-4	2.004	0.20		2043	
	plastics	epoxy resin	-	84.825	8.65		86494	
	inorganic material	silicondioxide	60676-86-0	581.088	59.25	68.10	592515	681052
leadfinish	noble metal	silver	7440-22-4	0.002			2	
	noble metal	palladium	7440-05-3	0.003			3	
	noble metal	gold	7440-57-5	0.004			4	
	non noble metal	nickel	7440-02-0	4.098	0.42	0.42	4179	4188
plating	noble metal	silver	7440-22-4	0.006			6	
	noble metal	palladium	7440-05-3	0.007			7	
	noble metal	gold	7440-57-5	0.011			12	
	non noble metal	nickel	7440-02-0	11.395	1.16	1.16	11619	11644
glue	plastics	epoxy resin	-	2.086	0.21		2127	
	noble metal	silver	7440-22-4	6.259	0.64	0.85	6382	8509
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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