



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	XMC4500-E144F1024 AC	<b>Issued</b>	24. June 2021
<b>MA#</b>	MA005555340		
<b>Package</b>	PG-LFBGA-144-10	<b>Weight*</b>	367.77 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	13.003	3.54	3.54	35358	35358
wire	noble metal	palladium	7440-05-3	0.007			18	
	non noble metal	copper	7440-50-8	0.669	0.18	0.18	1819	1837
encapsulation	organic material	carbon black	1333-86-4	0.374	0.10		1018	
	plastics	epoxy resin	-	25.840	7.03		70261	
	inorganic material	silicondioxide	60676-86-0	161.030	43.79	50.92	437860	509139
substrate	non noble metal	metal hydroxide	-	2.110	0.57		5737	
	inorganic material	bariumsulfate	7727-43-7	3.977	1.08		10813	
	inorganic material	amorphous silica	7631-86-9	4.219	1.15		11473	
	plastics	acrylic resin	-	4.602	1.25		12514	
	inorganic material	glass fibre wool	65997-17-3	8.439	2.29		22947	
	plastics	epoxy resin	-	8.921	2.43		24257	
	non noble metal	copper	7440-50-8	81.789	22.24	31.01	222393	310134
plating	noble metal	gold	7440-57-5	0.136	0.04		371	
	non noble metal	nickel	7440-02-0	0.373	0.10	0.14	1015	1386
solderball	noble metal	silver	7440-22-4	1.744	0.47		4742	
	non noble metal	tin	7440-31-5	48.079	13.07	13.54	130732	135474
glue	plastics	epoxy resin	-	0.613	0.17		1668	
	noble metal	silver	7440-22-4	1.840	0.50	0.67	5004	6672
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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