



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	ICE5QR1680BG	<b>Issued</b>	13. April 2021
<b>MA#</b>	MA005406312		
<b>Package</b>	PG-DSO-12-21	<b>Weight*</b>	154.86 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	1.500	0.97	0.97	9683	9683
chip_2	inorganic material	silicon	7440-21-3	0.663	0.43	0.43	4279	4279
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		112	
	non noble metal	zinc	7440-66-6	0.069	0.04		448	
	non noble metal	iron	7439-89-6	1.386	0.90		8952	
	non noble metal	copper	7440-50-8	56.286	36.35	37.30	363474	372986
wires	noble metal	palladium	7440-05-3	0.001			5	
	non noble metal	copper	7440-50-8	0.080	0.05	0.05	515	520
encapsulation	organic material	carbon black	1333-86-4	0.277	0.18		1789	
	plastics	epoxy resin	-	10.803	6.98		69760	
	inorganic material	silicondioxide	60676-86-0	81.251	52.46	59.62	524688	596237
leadfinish	non noble metal	tin	7440-31-5	1.143	0.74	0.74	7379	7379
plating	noble metal	silver	7440-22-4	0.428	0.28	0.28	2767	2767
glue	plastics	epoxy resin	-	0.143	0.09		922	
	noble metal	silver	7440-22-4	0.809	0.52	0.61	5227	6149
*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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