



List of Component

No. PN001350 Rev.A

Date 2020/09/10

Item	Thermal print head	Company Name	ROHM Co., Ltd.
Part No.	KD2008-CF10A	Address	21,Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan
Product mass	39400 mg		

No.	Part Name	Substance Name	CAS No.	Mass (mg)	Concentration (wt%)	Remark
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No.	Part Name	Substance Name	CAS No.	Mass (mg)	Concentration (wt%)	Remark	
		Arsenic	7440-38-2	0	0.0005		
1	Die-Bonging Paste	Silica	60676-86-0	0.602820	60.00000		
2		Epoxy resin	9003-36-5	0.299440	30.00000		
3		Phenol -formaldehyde	9003-35-4	0.098500	10.00000		
4	Bonding wire	Gold	7440-57-5	19.116880	100.00000		
5	IC protective resin	Silica	-	642.956780	80.00000		
6		Epoxy resin	-	80.372060	10.00000		
7		Acid anhydride	-	64.296860	8.00000		
8		CarbonBlack	1333-86-4	2.411280	0.30000		
9		Antimony pentaoxide	1314-60-9	5.626320	0.70000		
10		Bismuth compounds	-	8.033660	1.00000		
11	IC protective resin	Silica	-	634.915240	79.00000		
12		Epoxy resin	-	88.405720	11.00000		
13		Acid anhydride	-	72.330520	9.00000		
14		CarbonBlack	1333-86-4	1.607520	0.20000		
15		Antimony pentaoxide	1314-60-9	2.411280	0.30000		
16		Bismuth compounds	-	4.018800	0.50000		
17	Thermistor	Manganese tetraoxide	1317-35-7	0.224580	30.00000		
18		Nickel oxide	1313-99-1	0.224580	30.00000		
19		Aluminium oxide	1344-28-1	0.224580	30.00000		
20		Gold	7440-57-5	0.035460	4.50000		
21		Lead oxide	1317-36-8	0.003940	0.50000	RoHS exemption :7(c)-I	
22		Others	-	0.039400	5.00000		
23	Thermistor bonding paste	Silver	7440-22-4	0.149720	75.00000		
24		Bisphenol epoxy resin F	-	0.019700	10.00000		
25		1,4-Butanediol diglycidyl ether	-	0.011820	5.00000		
26		Modified diamine	-	0.011820	5.00000		
27		Epoxy resin	-	0.011820	5.00000		
28	Heatsink	Silicon	7440-21-3	103.795360	0.42000		
29		Iron	7439-89-6	39.541840	0.16000		
30		Copper	7440-50-8	2.470380	0.01000		
31		Manganese	7439-96-5	2.470380	0.01000		
32	(0)	(0)	Magnesium	7439-95-4	123.566280	0.50000	

33		Chromium	7440-47-3	2.470380	0.01000		
34		Zinc	7440-66-6	2.470380	0.01000		
35		Titanium	7440-32-6	2.470380	0.01000		
36		Aluminum	7429-90-5	24.434.276420	98.87000		
37		Adhesive tape	Acrylic adhesive	-	71.325820	100.00000	
38	Connector	Terminal	Copper	7440-50-8	409.732420	91.80000	
39			Tin	7440-31-5	35.708220	8.00000	
40			Phosphorus	7723-14-0	0.894380	0.20000	
41		Terminal Surface treatment	Tin	7440-31-5	15.791520	100.00000	
42		Terminal Surface treatment	Nickel	7440-02-0	6.812260	100.00000	
43		Resin part	1,4-Benzenedicarboxylic acid, polymer with 2-methyl-1,8-octanediamine and 1,9-nonanediamine		169284-22-4	130.804060	42.00000
44			Glass fiber	65997-17-3	102.770960	33.00000	
45			Brominated flame retardants (except PBB and PBDE)		88497-56-7	68.516600	22.00000
46			CarbonBlack	1333-86-4	9.341740	3.00000	
47		UV resin	Polyurethane methacrylate resin		-	106.892200	38.00000
48			Hydroxyethyl methacrylate		-	64.694800	23.00000
49			High boiling methacrylate		-	42.193460	15.00000
50			Photoinitiator		-	22.501340	8.00000
51			Silicon analogue		-	22.501340	8.00000
52	Silicone dioxides		-	22.501340	8.00000		
53	Ceramic substrate	Glazed substrate	Aluminium oxide	1344-28-1	11,071.510320	96.00000	
54			Silica	7631-86-9	230.655480	2.00000	
55			Magnesium oxide	1309-48-4	219.127040	1.90000	
56			Glass	-	11.532380	0.10000	
57		Paste	Gold	7440-57-5	243.476240	98.20000	
58			Lead oxide	1317-36-8	1.414460	0.57000 RoHS exemption :7(c)-I	
59			Glass and metal oxide	-	3.049560	1.23000	
60		Paste	Gold	7440-57-5	6.820140	96.97000	
61			Glass and metal oxide	-	0.169420	2.43000	
62			Lead oxide	1317-36-8	0.043340	0.60000 RoHS exemption :7(c)-I	
63		Paste	Ruthenium dioxide	12036-10-1	0.362480	20.10000	
64			Lead oxide	1317-36-8	0.212760	11.75000 RoHS exemption :7(c)-I	
65			Glass and metal oxide	-	1.229280	68.15000	
66		Paste	Lead oxide	1317-36-8	30.152820	28.00000 RoHS exemption :7(c)-I	
67			Glass	-	62.452940	57.99000	
68			Aluminium oxide	1344-28-1	15.094140	14.01000	
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Remarks

- All information in this document is furnished for exploratory or indicative purposes only.
- This information provides estimates of the average weights and content of component materials. And does not include impurities or metals diffused in the silicon.
- The contained volume/mass is a calculated value. For this reason, there are cases when the total volume/mass may differ from the product volume/mass.
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