



List of Component

No. PN001759 Rev.A

Date 2021/01/29

Item	Thermal print head	Company Name	ROHM Co., Ltd.
Part No.	KD3002-DF10A	Address	21,Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan
Product mass	11600 mg		

No.	Part Name	Substance Name	CAS No.	Mass (mg)	Concentration (wt%)	Remark
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	Die-Bonging Paste	Silica	60676-86-0	0.60204	60	
1		Epoxy resin	9003-36-5	0.301600	30.00000	
2		Phenol -formal dehyde	9003-35-4	0.099760	10.00000	
3	Bonding wire	Gold	7440-57-5	8.763800	100.00000	
4	IC protective resin	Silica	-	200.782080	80.00000	
5		Epoxy resin	-	25.097760	10.00000	
6		Acid anhydride	-	20.077280	8.00000	
7		CarbonBlack	1333-86-4	0.754000	0.30000	
8		Antimony pentaoxide	1314-60-9	1.757400	0.70000	
9		Bismuth compounds	-	2.509080	1.00000	
10	IC protective resin	Silica	-	198.270680	79.00000	
11		Epoxy resin	-	27.608000	11.00000	
12		Acid anhydride	-	22.588680	9.00000	
13		CarbonBlack	1333-86-4	0.502280	0.20000	
14		Antimony pentaoxide	1314-60-9	0.754000	0.30000	
15	Bismuth compounds	-	1.255120	0.50000		
16	Thermistor	Manganese tetraoxide	1317-35-7	0.226200	30.00000	
17		Nickel oxide	1313-99-1	0.226200	30.00000	
18		Aluminium oxide	1344-28-1	0.226200	30.00000	
19		Gold	7440-57-5	0.033640	4.50000	
20		Lead oxide	1317-36-8	0.003480	0.50000	RoHS exemption :7(c)-I
21		Others	-	0.037120	5.00000	
22	Thermistor bonding paste	Silver	7440-22-4	0.150800	75.00000	
23		Bisphenol epoxy resin F	-	0.019720	10.00000	
24		1,4-Butanediol diglycidyl ether	-	0.010440	5.00000	
25		Modified diamine	-	0.010440	5.00000	
26		Epoxy resin	-	0.010440	5.00000	
27	Heatsink	Silicon	7440-21-3	28.671720	0.42000	
28		Iron	7439-89-6	10.922560	0.16000	
29		Copper	7440-50-8	0.682080	0.01000	
30		Manganese	7439-96-5	0.682080	0.01000	
31		Magnesium	7439-95-4	34.133000	0.50000	
32	(0)	(0)	Chromium	7440-47-3	0.682080	0.01000

33			Zinc	7440-66-6	0.682080	0.01000			
34			Titanium	7440-32-6	0.682080	0.01000			
35			Aluminum	7429-90-5	6,749.431000	98.87000			
36		Adhesive tape	Acrylic adhesive	-	29.113680	100.00000			
37	Connector	Terminal	Copper	7440-50-8	409.442880	91.80000			
38				Tin	7440-31-5	35.681600	8.00000		
39				Phosphorus	7723-14-0	0.892040	0.20000		
40		Terminal Surface treatment	Tin	7440-31-5	15.781800	100.00000			
41		Terminal Surface treatment	Nickel	7440-02-0	6.806880	100.00000			
42		Resin part		1,4-Benzenedicarboxylic acid, polymer with 2-methyl-1,8-octanediamine and 1,9-nonanediamine	169284-22-4	130.708800	42.00000		
43				Glass fiber	65997-17-3	102.700600	33.00000		
44				Brominated flame retardants (except PBB and PBDE)	88497-56-7	68.466680	22.00000		
45				CarbonBlack	1333-86-4	9.335680	3.00000		
46		UV resin		Polyurethane methacrylate resin	-	99.185800	38.00000		
47				Hydroxyethyl methacrylate	-	60.033480	23.00000		
48				High boiling methacrylate	-	39.152320	15.00000		
49				Photoinitiator	-	20.881160	8.00000		
50				Silicon analogue	-	20.881160	8.00000		
51				Silicone dioxides	-	20.881160	8.00000		
52	UV resin		Acrylate Oligomer	-	16.143720	80.41000			
53				Glycidyl methacrylate	106-91-2	0.682080	3.40000		
54				2-Hydroxyethyl acrylate	818-61-1	0.863040	4.30000		
55				N-Vinyl-2-pyrrolidone	88-12-0	1.365320	6.80000		
56				Amorphous silica	-	1.003400	5.00000		
57				Dibutyltin compounds	-	0.018560	0.09000		
58	Ceramic substrate	Glazed substrate	Aluminium oxide	1344-28-1	2,912.833080	96.00000			
59				Silica	7631-86-9	60.684240	2.00000		
60				Magnesium oxide	1309-48-4	57.649680	1.90000		
61				Glass	-	3.034560	0.10000		
62		Paste	Gold	7440-57-5	70.980400	98.20000			
63			Lead oxide	1317-36-8	0.411800	0.57000	RoHS exemption :7(c)-I		
64				Glass and metal oxide	-	0.888560	1.23000		
65		Paste		Gold	7440-57-5	1.168120	96.97000		
66					Glass and metal oxide	-	0.029000	2.43000	
67					Lead oxide	1317-36-8	0.006960	0.60000	RoHS exemption :7(c)-I
68		Paste		Ruthenium dioxide	12036-10-1	0.080040	20.10000		
69					Lead oxide	1317-36-8	0.047560	11.75000	RoHS exemption :7(c)-I
70		()	()	Glass and metal oxide	-	0.273760	68.15000		

71	Paste	Lead oxide	1317-36-8	8.587480	28.00000	RoHS exemption :7(c)-I
72		Glass	-	17.785120	57.99000	
73		Aluminium oxide	1344-28-1	4.296640	14.01000	

Remarks

- All information in this document is furnished for exploratory or indicative purposes only.
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