

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1HM100B ECA1HM2R2B ECA1HM4R7B ECA1JM100B ECA1JM100I ECA1HM220B ECA1VM470B
Weight (g)	0.440

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	56.78	Aluminum (Al)	7429-90-5	56.78	12.907
2	Electrolyte	45.00	Ethylene glycol	107-21-1	45.00	10.23
3	Separator	33.29	Cellulose	9004-34-6	33.29	7.57
4	Binding tape	7.50	Polypropylene	9003-07-0	7.50	1.70
5	Terminal aluminum lead	29.00	Aluminum (Al)	7429-90-5	29.00	6.59
6	Terminal	56.02	Iron(Fe)	7439-89-6	56.02	12.73
7	Terminal plating	12.23	Copper (Cu)	7440-50-8	12.23	2.78
8	Terminal plating	6.40	Tin (Sn)	7440-31-5	6.40	1.45
9	Case	116.78	Aluminum (Al)	7429-90-5	116.78	26.54
10	Sealing rubber	53.90	Butyl rubber	9010-85-9	53.90	12.25
11	Outer sleeve	23.00	Polyethylene terephthalate	25038-59-9	23.00	5.23
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.023
Total	-----	440.0	-----	-----	440.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1A101S ECA1JHG100
Weight (g)	0.440

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	56.78	Aluminum (Al)	7429-90-5	56.78	12.907
2	Electrolyte	45.00	Gamma-Butyrolactone	96-48-0	45.00	10.23
3	Separator	33.29	Cellulose	9004-34-6	33.29	7.57
4	Binding tape	7.50	Polypropylene	9003-07-0	7.50	1.70
5	Terminal aluminum lead	29.00	Aluminum (Al)	7429-90-5	29.00	6.59
6	Terminal	56.02	Iron(Fe)	7439-89-6	56.02	12.73
7	Terminal plating	12.23	Copper (Cu)	7440-50-8	12.23	2.78
8	Terminal plating	6.40	Tin (Sn)	7440-31-5	6.40	1.45
9	Case	116.78	Aluminum (Al)	7429-90-5	116.78	26.54
10	Sealing rubber	53.90	Butyl rubber	9010-85-9	53.90	12.25
11	Outer sleeve	23.00	Polyethylene terephthalate	25038-59-9	23.00	5.23
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.023
Total	-----	440.0	-----	-----	440.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1EM101B ECA1HM470B ECA1VM101I
Weight (g)	0.650

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	115.66	Aluminum (Al)	7429-90-5	115.66	17.795
2	Electrolyte	77.00	Ethylene glycol	107-21-1	77.00	11.85
3	Separator	33.04	Cellulose	9004-34-6	33.04	5.08
4	Binding tape	3.63	Polypropylene	9003-07-0	3.63	0.56
5	Terminal aluminum lead	29.00	Aluminum (Al)	7429-90-5	29.00	4.46
6	Terminal	56.07	Iron(Fe)	7439-89-6	56.07	8.63
7	Terminal plating	12.24	Copper (Cu)	7440-50-8	12.24	1.88
8	Terminal plating	6.39	Tin (Sn)	7440-31-5	6.39	0.98
9	Case	183.57	Aluminum (Al)	7429-90-5	183.57	28.24
10	Sealing rubber	96.30	Butyl rubber	9010-85-9	96.30	14.82
11	Outer sleeve	37.00	Polyethylene terephthalate	25038-59-9	37.00	5.69
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.015
Total	-----	650.0	-----	-----	650.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1H330
Weight (g)	0.650

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	115.66	Aluminum (Al)	7429-90-5	115.66	17.795
2	Electrolyte	77.00	Gamma-Butyrolactone	96-48-0	77.00	11.85
3	Separator	33.04	Cellulose	9004-34-6	33.04	5.08
4	Binding tape	3.63	Polypropylene	9003-07-0	3.63	0.56
5	Terminal aluminum lead	29.00	Aluminum (Al)	7429-90-5	29.00	4.46
6	Terminal	56.07	Iron(Fe)	7439-89-6	56.07	8.63
7	Terminal plating	12.24	Copper (Cu)	7440-50-8	12.24	1.88
8	Terminal plating	6.39	Tin (Sn)	7440-31-5	6.39	0.98
9	Case	183.57	Aluminum (Al)	7429-90-5	183.57	28.24
10	Sealing rubber	96.30	Butyl rubber	9010-85-9	96.30	14.82
11	Outer sleeve	37.00	Polyethylene terephthalate	25038-59-9	37.00	5.69
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.015
Total	-----	650.0	-----	-----	650.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1JM101B ECA1VM221B
Weight (g)	1.080

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	223.06	Aluminum (Al)	7429-90-5	223.06	20.661
2	Electrolyte	124.00	Ethylene glycol	107-21-1	124.00	11.48
3	Separator	93.51	Cellulose	9004-34-6	93.51	8.66
4	Binding tape	14.04	Polypropylene	9003-07-0	14.04	1.30
5	Terminal aluminum lead	42.80	Aluminum (Al)	7429-90-5	42.80	3.96
6	Terminal	81.10	Iron(Fe)	7439-89-6	81.10	7.51
7	Terminal plating	14.29	Copper (Cu)	7440-50-8	14.29	1.32
8	Terminal plating	7.37	Tin (Sn)	7440-31-5	7.37	0.68
9	Case	251.73	Aluminum (Al)	7429-90-5	251.73	23.31
10	Sealing rubber	181.00	Butyl rubber	9010-85-9	181.00	16.76
11	Outer sleeve	47.00	Polyethylene terephthalate	25038-59-9	47.00	4.35
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.009
Total	-----	1080.0	-----	-----	1080.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1V151 ECA1HFG101B EEUFC1J470
Weight (g)	1.080

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	223.06	Aluminum (Al)	7429-90-5	223.06	20.661
2	Electrolyte	124.00	Gamma-Butyrolactone	96-48-0	124.00	11.48
3	Separator	93.51	Cellulose	9004-34-6	93.51	8.66
4	Binding tape	14.04	Polypropylene	9003-07-0	14.04	1.30
5	Terminal aluminum lead	42.80	Aluminum (Al)	7429-90-5	42.80	3.96
6	Terminal	81.10	Iron(Fe)	7439-89-6	81.10	7.51
7	Terminal plating	14.29	Copper (Cu)	7440-50-8	14.29	1.32
8	Terminal plating	7.37	Tin (Sn)	7440-31-5	7.37	0.68
9	Case	251.73	Aluminum (Al)	7429-90-5	251.73	23.31
10	Sealing rubber	181.00	Butyl rubber	9010-85-9	181.00	16.76
11	Outer sleeve	47.00	Polyethylene terephthalate	25038-59-9	47.00	4.35
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.009
Total	-----	1080.0	-----	-----	1080.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1V221L
Weight (g)	1.360

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	299.70	Aluminum (Al)	7429-90-5	299.70	22.023
2	Electrolyte	200.00	Gamma-Butyrolactone	96-48-0	200.00	14.71
3	Separator	171.50	Cellulose	9004-34-6	171.50	12.61
4	Binding tape	7.70	Polypropylene	9003-07-0	7.70	0.57
5	Terminal aluminum lead	42.80	Aluminum (Al)	7429-90-5	42.80	3.15
6	Terminal	82.08	Iron(Fe)	7439-89-6	82.08	6.04
7	Terminal plating	14.46	Copper (Cu)	7440-50-8	14.46	1.06
8	Terminal plating	7.46	Tin (Sn)	7440-31-5	7.46	0.55
9	Case	311.00	Aluminum (Al)	7429-90-5	311.00	22.87
10	Sealing rubber	165.20	Butyl rubber	9010-85-9	165.20	12.15
11	Outer sleeve	58.00	Polyethylene terephthalate	25038-59-9	58.00	4.26
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.007
Total	-----	1360.0	-----	-----	1360.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1EM471B
Weight (g)	1.610

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	318.90	Aluminum (Al)	7429-90-5	318.90	19.804
2	Electrolyte	270.00	Ethylene glycol	107-21-1	270.00	16.77
3	Separator	146.00	Cellulose	9004-34-6	146.00	9.07
4	Binding tape	15.00	Polypropylene	9003-07-0	15.00	0.93
5	Terminal aluminum lead	44.00	Aluminum (Al)	7429-90-5	44.00	2.73
6	Terminal	98.65	Iron(Fe)	7439-89-6	98.65	6.13
7	Terminal plating	17.38	Copper (Cu)	7440-50-8	17.38	1.08
8	Terminal plating	8.97	Tin (Sn)	7440-31-5	8.97	0.56
9	Case	335.00	Aluminum (Al)	7429-90-5	335.00	20.81
10	Sealing rubber	297.00	Butyl rubber	9010-85-9	297.00	18.45
11	Outer sleeve	59.00	Polyethylene terephthalate	25038-59-9	59.00	3.66
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.006
Total	-----	1610.0	-----	-----	1610.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1J101B
Weight (g)	1.610

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	318.90	Aluminum (Al)	7429-90-5	318.90	19.804
2	Electrolyte	270.00	Gamma-Butyrolactone	96-48-0	270.00	16.77
3	Separator	146.00	Cellulose	9004-34-6	146.00	9.07
4	Binding tape	15.00	Polypropylene	9003-07-0	15.00	0.93
5	Terminal aluminum lead	44.00	Aluminum (Al)	7429-90-5	44.00	2.73
6	Terminal	98.65	Iron(Fe)	7439-89-6	98.65	6.13
7	Terminal plating	17.38	Copper (Cu)	7440-50-8	17.38	1.08
8	Terminal plating	8.97	Tin (Sn)	7440-31-5	8.97	0.56
9	Case	335.00	Aluminum (Al)	7429-90-5	335.00	20.81
10	Sealing rubber	297.00	Butyl rubber	9010-85-9	297.00	18.45
11	Outer sleeve	59.00	Polyethylene terephthalate	25038-59-9	59.00	3.66
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.006
Total	-----	1610.0	-----	-----	1610.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1CM102B
Weight (g)	2.010

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	417.90	Aluminum (Al)	7429-90-5	417.90	20.785
2	Electrolyte	400.00	Ethylene glycol	107-21-1	400.00	19.90
3	Separator	194.70	Cellulose	9004-34-6	194.70	9.69
4	Binding tape	27.00	Polypropylene	9003-07-0	27.00	1.34
5	Terminal aluminum lead	44.00	Aluminum (Al)	7429-90-5	44.00	2.19
6	Terminal	99.44	Iron(Fe)	7439-89-6	99.44	4.95
7	Terminal plating	17.52	Copper (Cu)	7440-50-8	17.52	0.87
8	Terminal plating	9.04	Tin (Sn)	7440-31-5	9.04	0.45
9	Case	426.00	Aluminum (Al)	7429-90-5	426.00	21.19
10	Sealing rubber	297.00	Butyl rubber	9010-85-9	297.00	14.78
11	Outer sleeve	77.30	Polyethylene terephthalate	25038-59-9	77.30	3.85
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.005
Total	-----	2010.0	-----	-----	2010.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1C681B EEUFC1E471B ECA1HFG221B
Weight (g)	2.010

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	417.90	Aluminum (Al)	7429-90-5	417.90	20.785
2	Electrolyte	400.00	Gamma-Butyrolactone	96-48-0	400.00	19.90
3	Separator	194.70	Cellulose	9004-34-6	194.70	9.69
4	Binding tape	27.00	Polypropylene	9003-07-0	27.00	1.34
5	Terminal aluminum lead	44.00	Aluminum (Al)	7429-90-5	44.00	2.19
6	Terminal	99.44	Iron(Fe)	7439-89-6	99.44	4.95
7	Terminal plating	17.52	Copper (Cu)	7440-50-8	17.52	0.87
8	Terminal plating	9.04	Tin (Sn)	7440-31-5	9.04	0.45
9	Case	426.00	Aluminum (Al)	7429-90-5	426.00	21.19
10	Sealing rubber	297.00	Butyl rubber	9010-85-9	297.00	14.78
11	Outer sleeve	77.30	Polyethylene terephthalate	25038-59-9	77.30	3.85
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.005
Total	-----	2010.0	-----	-----	2010.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1HM471B
Weight (g)	2.560

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	617.40	Aluminum (Al)	7429-90-5	617.40	24.126
2	Electrolyte	590.00	Ethylene glycol	107-21-1	590.00	23.05
3	Separator	234.00	Cellulose	9004-34-6	234.00	9.14
4	Binding tape	22.00	Polypropylene	9003-07-0	22.00	0.86
5	Terminal aluminum lead	44.00	Aluminum (Al)	7429-90-5	44.00	1.72
6	Terminal	99.44	Iron(Fe)	7439-89-6	99.44	3.88
7	Terminal plating	17.52	Copper (Cu)	7440-50-8	17.52	0.68
8	Terminal plating	9.04	Tin (Sn)	7440-31-5	9.04	0.35
9	Case	525.00	Aluminum (Al)	7429-90-5	525.00	20.51
10	Sealing rubber	297.00	Butyl rubber	9010-85-9	297.00	11.60
11	Outer sleeve	104.50	Polyethylene terephthalate	25038-59-9	104.50	4.08
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.004
Total	-----	2560.0	-----	-----	2560.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1VM102B
Weight (g)	3.930

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	863.10	Aluminum (Al)	7429-90-5	863.10	21.957
2	Electrolyte	810.00	Ethylene glycol	107-21-1	810.00	20.61
3	Separator	455.00	Cellulose	9004-34-6	455.00	11.58
4	Binding tape	22.00	Polypropylene	9003-07-0	22.00	0.56
5	Terminal aluminum lead	133.80	Aluminum (Al)	7429-90-5	133.80	3.40
6	Terminal	80.50	Iron(Fe)	7439-89-6	80.50	2.05
7	Terminal plating	14.18	Copper (Cu)	7440-50-8	14.18	0.36
8	Terminal plating	7.32	Tin (Sn)	7440-31-5	7.32	0.19
9	Case	698.00	Aluminum (Al)	7429-90-5	698.00	17.76
10	Sealing rubber	714.00	Butyl rubber	9010-85-9	714.00	18.17
11	Outer sleeve	132.00	Polyethylene terephthalate	25038-59-9	132.00	3.36
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.003
Total	-----	3930.0	-----	-----	3930.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1E102B
Weight (g)	3.930

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	863.10	Aluminum (Al)	7429-90-5	863.10	21.957
2	Electrolyte	810.00	Gamma-Butyrolactone	96-48-0	810.00	20.61
3	Separator	455.00	Cellulose	9004-34-6	455.00	11.58
4	Binding tape	22.00	Polypropylene	9003-07-0	22.00	0.56
5	Terminal aluminum lead	133.80	Aluminum (Al)	7429-90-5	133.80	3.40
6	Terminal	80.50	Iron(Fe)	7439-89-6	80.50	2.05
7	Terminal plating	14.18	Copper (Cu)	7440-50-8	14.18	0.36
8	Terminal plating	7.32	Tin (Sn)	7440-31-5	7.32	0.19
9	Case	698.00	Aluminum (Al)	7429-90-5	698.00	17.76
10	Sealing rubber	714.00	Butyl rubber	9010-85-9	714.00	18.17
11	Outer sleeve	132.00	Polyethylene terephthalate	25038-59-9	132.00	3.36
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.003
Total	-----	3930.0	-----	-----	3930.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1JFG471B
Weight (g)	4.720

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	1283.10	Aluminum (Al)	7429-90-5	1283.10	27.178
2	Electrolyte	1160.00	Gamma-Butyrolactone	96-48-0	1160.00	24.58
3	Separator	308.00	Cellulose	9004-34-6	308.00	6.53
4	Binding tape	27.00	Polypropylene	9003-07-0	27.00	0.57
5	Terminal aluminum lead	133.80	Aluminum (Al)	7429-90-5	133.80	2.83
6	Terminal	80.50	Iron(Fe)	7439-89-6	80.50	1.71
7	Terminal plating	14.18	Copper (Cu)	7440-50-8	14.18	0.30
8	Terminal plating	7.32	Tin (Sn)	7440-31-5	7.32	0.16
9	Case	837.00	Aluminum (Al)	7429-90-5	837.00	17.73
10	Sealing rubber	714.00	Butyl rubber	9010-85-9	714.00	15.13
11	Outer sleeve	155.00	Polyethylene terephthalate	25038-59-9	155.00	3.28
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.002
Total	-----	4720.0	-----	-----	4720.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1VFQ561SB
Weight (g)	4.740

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	967.50	Aluminum (Al)	7429-90-5	967.50	20.418
2	Electrolyte	700.00	Gamma-Butyrolactone	96-48-0	700.00	14.77
3	Separator	565.20	Cellulose	9004-34-6	565.20	11.92
4	Binding tape	42.00	Polypropylene	9003-07-0	42.00	0.89
5	Terminal aluminum lead	147.40	Aluminum (Al)	7429-90-5	147.40	3.11
6	Terminal	149.04	Iron(Fe)	7439-89-6	149.04	3.14
7	Terminal plating	18.93	Copper (Cu)	7440-50-8	18.93	0.40
8	Terminal plating	9.63	Tin (Sn)	7440-31-5	9.63	0.20
9	Case	771.20	Aluminum (Al)	7429-90-5	771.20	16.27
10	Sealing rubber	1256.00	Butyl rubber	9010-85-9	1256.00	26.50
11	Outer sleeve	113.00	Polyethylene terephthalate	25038-59-9	113.00	2.38
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.002
Total	-----	4740.0	-----	-----	4740.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1CM472B ECA1JM102B ECA1VM222B
Weight (g)	6.901

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	1752.50	Aluminum (Al)	7429-90-5	1752.50	25.379
2	Electrolyte	1500.00	Ethylene glycol	107-21-1	1500.00	21.74
3	Separator	690.00	Cellulose	9004-34-6	690.00	10.00
4	Binding tape	26.00	Polypropylene	9003-07-0	26.00	0.38
5	Terminal aluminum lead	147.40	Aluminum (Al)	7429-90-5	147.40	2.14
6	Terminal	270.21	Iron(Fe)	7439-89-6	270.21	3.92
7	Terminal plating	34.33	Copper (Cu)	7440-50-8	34.33	0.50
8	Terminal plating	17.46	Tin (Sn)	7440-31-5	17.46	0.25
9	Case	1069.00	Aluminum (Al)	7429-90-5	1069.00	15.49
10	Sealing rubber	1200.00	Butyl rubber	9010-85-9	1200.00	17.39
11	Outer sleeve	194.00	Polyethylene terephthalate	25038-59-9	194.00	2.81
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.001
Total	-----	6901.0	-----	-----	6901.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1H102B
Weight (g)	6.901

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	1752.50	Aluminum (Al)	7429-90-5	1752.50	25.379
2	Electrolyte	1500.00	Gamma-Butyrolactone	96-48-0	1500.00	21.74
3	Separator	690.00	Cellulose	9004-34-6	690.00	10.00
4	Binding tape	26.00	Polypropylene	9003-07-0	26.00	0.38
5	Terminal aluminum lead	147.40	Aluminum (Al)	7429-90-5	147.40	2.14
6	Terminal	270.21	Iron(Fe)	7439-89-6	270.21	3.92
7	Terminal plating	34.33	Copper (Cu)	7440-50-8	34.33	0.50
8	Terminal plating	17.46	Tin (Sn)	7440-31-5	17.46	0.25
9	Case	1069.00	Aluminum (Al)	7429-90-5	1069.00	15.49
10	Sealing rubber	1200.00	Butyl rubber	9010-85-9	1200.00	17.39
11	Outer sleeve	194.00	Polyethylene terephthalate	25038-59-9	194.00	2.81
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.001
Total	-----	6901.0	-----	-----	6901.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECA1EM472B
Weight (g)	9.960

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	3084.50	Aluminum (Al)	7429-90-5	3084.50	30.959
2	Electrolyte	2710.00	Ethylene glycol	107-21-1	2710.00	27.21
3	Separator	943.00	Cellulose	9004-34-6	943.00	9.47
4	Binding tape	28.00	Polypropylene	9003-07-0	28.00	0.28
5	Terminal aluminum lead	147.40	Aluminum (Al)	7429-90-5	147.40	1.48
6	Terminal	185.46	Iron(Fe)	7439-89-6	185.46	1.86
7	Terminal plating	23.56	Copper (Cu)	7440-50-8	23.56	0.24
8	Terminal plating	11.98	Tin (Sn)	7440-31-5	11.98	0.12
9	Case	1408.00	Aluminum (Al)	7429-90-5	1408.00	14.14
10	Sealing rubber	1200.00	Butyl rubber	9010-85-9	1200.00	12.05
11	Outer sleeve	218.00	Polyethylene terephthalate	25038-59-9	218.00	2.19
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.001
Total	-----	9960.0	-----	-----	9960.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	ECEA1HSS102B
Weight (g)	7.580

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	2345.70	Aluminum (Al)	7429-90-5	2345.70	30.949
2	Electrolyte	1231.00	Ethylene glycol	107-21-1	1231.00	16.24
3	Separator	382.90	Cellulose	9004-34-6	382.90	5.05
4	Binding tape	35.50	Polypropylene	9003-07-0	35.50	0.47
5	Terminal aluminum lead	178.40	Aluminum (Al)	7429-90-5	178.40	2.35
6	Terminal	184.62	Iron(Fe)	7439-89-6	184.62	2.44
7	Terminal plating	23.46	Copper (Cu)	7440-50-8	23.46	0.31
8	Terminal plating	11.92	Tin (Sn)	7440-31-5	11.92	0.16
9	Case	1246.40	Aluminum (Al)	7429-90-5	1246.40	16.44
10	Sealing rubber	1723.00	Butyl rubber	9010-85-9	1723.00	22.73
11	Outer sleeve	217.00	Polyethylene terephthalate	25038-59-9	217.00	2.86
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.001
Total	-----	7580.0	-----	-----	7580.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Radial Lead Type
Part Number	EEUFC1E472 EEUFC1H222
Weight (g)	13.860

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	4807.60	Aluminum (Al)	7429-90-5	4807.60	34.669
2	Electrolyte	3800.00	Gamma-Butyrolactone	96-48-0	3800.00	27.42
3	Separator	763.00	Cellulose	9004-34-6	763.00	5.51
4	Binding tape	35.70	Polypropylene	9003-07-0	35.70	0.26
5	Terminal aluminum lead	178.40	Aluminum (Al)	7429-90-5	178.40	1.29
6	Terminal	184.62	Iron(Fe)	7439-89-6	184.62	1.33
7	Terminal plating	23.46	Copper (Cu)	7440-50-8	23.46	0.17
8	Terminal plating	11.92	Tin (Sn)	7440-31-5	11.92	0.09
9	Case	2012.20	Aluminum (Al)	7429-90-5	2012.20	14.52
10	Sealing rubber	1723.00	Butyl rubber	9010-85-9	1723.00	12.43
11	Outer sleeve	320.00	Polyethylene terephthalate	25038-59-9	320.00	2.31
12	Ink	0.10	Nitrocellulose	9004-70-0	0.10	0.001
Total	-----	13860.0	-----	-----	13860.0	100

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEF1V2R2R EEE1CA220WR EEEHA1H1R0R
Weight (g)	0.1196

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	13.918	Aluminum	7429-90-5	13.918	11.63
2	Electrolyte	12.60	Gamma-Butyrolactone	96-48-0	12.60	10.54
3	Separator	5.97	Cellulose	9004-34-6	5.97	4.99
4	Binding tape	1.00	Polyphenylene sulfide	9016-75-5	1.00	0.84
5	Terminal aluminum lead	9.00	Aluminum	7429-90-5	9.00	7.53
6	Terminal	2.95	Iron	7439-89-6	2.95	2.47
7	Terminal plating	0.73	Copper	7440-50-8	0.73	0.61
8	Terminal plating	0.322	Tin	7440-31-5	0.32	0.27
			Bismuth	7440-69-9	0.002	0.0017
9	Case	40.70	Aluminum	7429-90-5	40.70	34.03
10	Case coating	0.31	Nylon6	25038-54-4	0.31	0.26
11	Sealing rubber	17.00	Butyl rubber	9010-85-9	17.00	14.21
12	Terminal plate	15.00	Polyphenylene sulfide	9016-75-5	15.00	12.54
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.08
Total	-----	119.6	-----	-----	119.6	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEF1V100R
Weight (g)	0.1960

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	23.728	Aluminum	7429-90-5	23.728	12.10
2	Electrolyte	18.24	Gamma-Butyrolactone	96-48-0	18.24	9.31
3	Separator	8.61	Cellulose	9004-34-6	8.61	4.39
4	Binding tape	1.70	Polyphenylene sulfide	9016-75-5	1.70	0.87
5	Terminal aluminum lead	9.80	Aluminum	7429-90-5	9.80	5.00
6	Terminal	4.58	Iron	7439-89-6	4.58	2.34
7	Terminal plating	1.14	Copper	7440-50-8	1.14	0.58
8	Terminal plating	0.382	Tin	7440-31-5	0.38	0.19
			Bismuth	7440-69-9	0.002	0.0010
9	Case	64.70	Aluminum	7429-90-5	64.70	33.01
10	Case coating	0.49	Nylon6	25038-54-4	0.49	0.25
11	Sealing rubber	37.53	Butyl rubber	9010-85-9	37.53	19.15
12	Terminal plate	25.00	Polyphenylene sulfide	9016-75-5	25.00	12.76
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.05
Total	-----	196.0	-----	-----	196.0	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEF1V220P EEEHA1H100P
Weight (g)	0.2991

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	49.558	Aluminum	7429-90-5	49.558	16.57
2	Electrolyte	28.50	Gamma-Butyrolactone	96-48-0	28.50	9.53
3	Separator	10.19	Cellulose	9004-34-6	10.19	3.41
4	Binding tape	1.77	Polyphenylene sulfide	9016-75-5	1.77	0.59
5	Terminal aluminum lead	9.80	Aluminum	7429-90-5	9.80	3.28
6	Terminal	6.52	Iron	7439-89-6	6.52	2.18
7	Terminal plating	1.62	Copper	7440-50-8	1.62	0.54
8	Terminal plating	0.462	Tin	7440-31-5	0.46	0.15
			Bismuth	7440-69-9	0.002	0.0007
9	Case	90.30	Aluminum	7429-90-5	90.30	30.19
10	Case coating	0.68	Nylon6	25038-54-4	0.68	0.23
11	Sealing rubber	59.60	Butyl rubber	9010-85-9	59.60	19.93
12	Terminal plate	40.00	Polyphenylene sulfide	9016-75-5	40.00	13.37
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.03
Total	-----	299.1	-----	-----	299.1	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEFK1H100P EEEFK1H220P EEEFK1C101P EEEFK1V470AP
Weight (g)	0.3166

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	48.508	Aluminum	7429-90-5	48.508	15.33
2	Electrolyte	41.20	Gamma-Butyrolactone	96-48-0	41.20	13.01
3	Separator	9.17	Cellulose	9004-34-6	9.17	2.90
4	Binding tape	2.67	Polyphenylene sulfide	9016-75-5	2.67	0.84
5	Terminal aluminum lead	9.80	Aluminum	7429-90-5	9.80	3.10
6	Terminal	6.12	Iron	7439-89-6	6.12	1.93
7	Terminal plating	1.52	Copper	7440-50-8	1.52	0.48
8	Terminal plating	0.462	Tin	7440-31-5	0.46	0.15
			Bismuth	7440-69-9	0.002	0.0006
9	Case	98.60	Aluminum	7429-90-5	98.60	31.14
10	Case coating	0.75	Nylon6	25038-54-4	0.75	0.24
11	Sealing rubber	57.70	Butyl rubber	9010-85-9	57.70	18.22
12	Terminal plate	40.00	Polyphenylene sulfide	9016-75-5	40.00	12.63
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.03
Total	-----	316.6	-----	-----	316.6	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEE1CA221XP
Weight (g)	0.4417

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	106.018	Aluminum	7429-90-5	106.018	24.01
2	Electrolyte	61.56	Gamma-Butyrolactone	96-48-0	61.56	13.94
3	Separator	22.01	Cellulose	9004-34-6	22.01	4.98
4	Binding tape	3.83	Polyphenylene sulfide	9016-75-5	3.83	0.87
5	Terminal aluminum lead	9.80	Aluminum	7429-90-5	9.80	2.22
6	Terminal	6.12	Iron	7439-89-6	6.12	1.39
7	Terminal plating	1.52	Copper	7440-50-8	1.52	0.34
8	Terminal plating	0.462	Tin	7440-31-5	0.46	0.10
			Bismuth	7440-69-9	0.002	0.0005
9	Case	129.70	Aluminum	7429-90-5	129.70	29.36
10	Case coating	0.98	Nylon6	25038-54-4	0.98	0.22
11	Sealing rubber	59.60	Butyl rubber	9010-85-9	59.60	13.49
12	Terminal plate	40.00	Polyphenylene sulfide	9016-75-5	40.00	9.06
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.02
Total	-----	441.7	-----	-----	441.7	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEF1V470AP EEEF1V470P
Weight (g)	0.5188

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	66.927	Aluminum	7429-90-5	66.927	12.91
2	Electrolyte	58.00	Gamma-Butyrolactone	96-48-0	58.00	11.18
3	Separator	19.57	Cellulose	9004-34-6	19.57	3.77
4	Binding tape	5.37	Polyphenylene sulfide	9016-75-5	5.37	1.04
5	Terminal aluminum lead	36.20	Aluminum	7429-90-5	36.20	6.98
6	Terminal	8.43	Iron	7439-89-6	8.43	1.62
7	Terminal plating	2.09	Copper	7440-50-8	2.09	0.40
8	Terminal plating	0.573	Tin	7440-31-5	0.57	0.11
			Bismuth	7440-69-9	0.003	0.0006
9	Case	151.20	Aluminum	7429-90-5	151.20	29.14
10	Case coating	1.14	Nylon6	25038-54-4	1.14	0.22
11	Sealing rubber	100.80	Butyl rubber	9010-85-9	100.80	19.43
12	Terminal plate	68.40	Polyphenylene sulfide	9016-75-5	68.40	13.18
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.02
Total	-----	518.8	-----	-----	518.8	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEHA1E101P EEEHA1E101AP
Weight (g)	0.8822

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	188.467	Aluminum	7429-90-5	188.467	21.36
2	Electrolyte	94.00	Gamma-Butyrolactone	96-48-0	94.00	10.66
3	Separator	56.63	Cellulose	9004-34-6	56.63	6.42
4	Binding tape	6.73	Polyphenylene sulfide	9016-75-5	6.73	0.76
5	Terminal aluminum lead	36.20	Aluminum	7429-90-5	36.20	4.10
6	Terminal	10.92	Iron	7439-89-6	10.92	1.24
7	Terminal plating	2.71	Copper	7440-50-8	2.71	0.31
8	Terminal plating	0.673	Tin	7440-31-5	0.67	0.08
			Bismuth	7440-69-9	0.003	0.0003
9	Case	238.70	Aluminum	7429-90-5	238.70	27.06
10	Case coating	1.80	Nylon6	25038-54-4	1.80	0.20
11	Sealing rubber	176.87	Butyl rubber	9010-85-9	176.87	20.05
12	Terminal plate	68.40	Polyphenylene sulfide	9016-75-5	68.40	7.75
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.01
Total	-----	882.2	-----	-----	882.2	100.0

Material List

Product Name	Aluminum Electrolytic Capacitors
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Type	Surface Mount Type
Part Number	EEEFC1E221AP EEEFC1V101AP EEEHA1C471P EEEFC1E221P EEEFC1V101P EEEHA1C471AP EEEHA1H101AP EEEHA1V221AP EEEHAV331UAP EEEHB1C471AP EEEHBV221UAP EEEHA1H101P EEEHA1V221P EEEHA1V331P
Weight (g)	1.2897

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	307.077	Aluminum	7429-90-5	307.077	23.80
2	Electrolyte	141.00	Gamma-Butyrolactone	96-48-0	141.00	10.93
3	Separator	100.30	Cellulose	9004-34-6	100.30	7.78
4	Binding tape	9.77	Polyphenylene sulfide	9016-75-5	9.77	0.76
5	Terminal aluminum lead	36.20	Aluminum	7429-90-5	36.20	2.81
6	Terminal	14.44	Iron	7439-89-6	14.44	1.12
7	Terminal plating	3.58	Copper	7440-50-8	3.58	0.28
8	Terminal plating	0.673	Tin	7440-31-5	0.67	0.05
			Bismuth	7440-69-9	0.003	0.0002
9	Case	299.30	Aluminum	7429-90-5	299.30	23.21
10	Case coating	2.26	Nylon6	25038-54-4	2.26	0.18
11	Sealing rubber	249.60	Butyl rubber	9010-85-9	249.60	19.35
12	Terminal plate	125.40	Polyphenylene sulfide	9016-75-5	125.40	9.72
13	Ink	0.10	Carbon Black	1333-86-4	0.10	0.01
Total	-----	1289.7	-----	-----	1289.7	100.0

Material List

Product name	Electric Double Layer Capacitors
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Type Series	Radial Lead Type ALSeries
Part No.	EECA0EL106
Weight (g)	10.122

Company	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Oishi
Prepared Person	Tomoko Yamada

No.	Portion	Mass (mg)	Material name	Substance name	CAS No.	Content (mg)	Content Rate (%)
1	Element	5532	Electrode	Activated carbon	7440-44-0	658	6.5
2			Current collector	Aluminum	7429-90-5	626	6.2
3			Separator	Cellulose	9004-34-6	1268	12.5
4			Adhesive tape	Polyethylene terephthalate	25038-59-9	180	1.8
5			Electrolyte	Propylene carbonate	108-32-7	2800	27.7
6	Terminal	496	Terminal	Iron	7439-89-6	440	4.3
7			Terminal	Copper	7440-50-8	56	0.6
8	Terminal plating	28	Terminal plating	Tin	7440-31-5	28	0.3
9	Encapsulation	4066	Case	Aluminum	7429-90-5	1864.9	18.4
10			Sealing rubber	Butyl rubber	9010-85-9	1791	17.7
11			Sleeve	Polyethylene terephthalate	25038-59-9	410	4.1
12			Ink	Nitrosellulose	9004-70-0	0.1	0.001
合計	---	10122	---	---	---	10122	100.1

Material List

Product name	Electric Double Layer Capacitors
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Type Series	Stacked coin Type F series
Part Number	EECF5R5H104
Weight (g)	2.8483

Company	Automotive & Industrial Systems Company, Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, JAPAN
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material name	Mass (mg)	Substance name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	48.0	Activated carbon	7440-44-0	48.0	1.7
2	Current collector	9.0	Carbon black	1333-86-4	9.0	0.3
3	Separator	7.4	Polypropylene	9003-07-0	7.4	0.3
4	Electrolyte	136.8	Propylene carbonate	108-32-7	136.8	4.8
5	Terminal	1166.1	Iron	7439-89-6	1162.5	40.8
			Copper	7440-50-8	3.6	0.126
6	Terminal plating	29.9	Tin	7440-31-5	29.9	1.050
7	Top cover	412.5	Iron	7439-89-6	286.7	10.1
			Chromium	7440-47-3	82.5	2.9
			Nickel	7440-02-0	43.3	1.5
8	Spring plate	172.9	Iron	7439-89-6	131.4	4.6
			Chromium	7440-47-3	29.4	1.0
			Nickel	7440-02-0	12.1	0.4
9	Bottom case	632.0	Iron	7439-89-6	450.8	15.8
			Chromium	7440-47-3	118.8	4.2
			Nickel	7440-02-0	62.4	2.2
10	Sealer	51.0	Polypropylene	9003-07-0	47.7	1.7
			Styrene-Butadiene based rubber	66070-58-4	3.3	0.1
11	Insulator	111.3	Polypropylene	9003-07-0	111.3	3.9
12	Outer sleeve	71.3	Polyethylene terephthalate	25038-59-9	71.3	2.5
13	Ink	0.1	Nitrocellulose	9004-70-0	0.1	0.004
Total	-----	2848.3	-----	-----	2848.3	100.0

Material List

Product name	Electric Double Layer Capacitors
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Type Series	Stacked coin Type NF series
Part Number	EECF5R5U104
Weight (g)	2.3897

Company	Automotive & Industrial Systems Company, Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, JAPAN
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Oishi
Prepared Person	Tomoko Yamada

No.	Material name	Mass (mg)	Substance name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	22.6	Activated carbon	7440-44-0	22.6	0.9
2	Current collector	6.0	Carbon black	1333-86-4	6.0	0.3
3	Separator	4.5	Polypropylene	9003-07-0	4.5	0.2
4	Electrolyte	57.6	Propylene carbonate	108-32-7	57.6	2.4
5	Terminal	1164.6	Iron	7439-89-6	1161.0	48.6
			Copper	7440-50-8	3.6	0.151
6	Terminal plating	29.9	Tin	7440-31-5	29.9	1.251
7	Top cover	275.0	Iron	7439-89-6	191.1	8.0
			Chromium	7440-47-3	55.0	2.3
			Nickel	7440-02-0	28.9	1.2
8	Spring plate	172.9	Iron	7439-89-6	131.4	5.5
			Chromium	7440-47-3	29.4	1.2
			Nickel	7440-02-0	12.1	0.5
9	Bottom case	421.3	Iron	7439-89-6	300.5	12.6
			Chromium	7440-47-3	79.2	3.3
			Nickel	7440-02-0	41.6	1.7
10	Sealer	34.0	Polypropylene	9003-07-0	31.8	1.3
			Styrene-Butadiene based rubber	66070-58-4	2.2	0.1
11	Insulator	111.2	Polypropylene	9003-07-0	111.2	4.7
12	Outer sleeve	90.0	Polyethylene terephthalate	25038-59-9	90.0	3.8
13	Ink	0.1	Nitrocellulose	9004-70-0	0.1	0.004
Total	-----	2389.7	-----	-----	2389.7	100.0

Material List

Product name	Electric Double Layer Capacitors
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Type Series	Stacked coin Type NF series
Part Number	EECF5R5U224
Weight (g)	2.4331

Company	Automotive & Industrial Systems Company, Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, JAPAN
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Oishi
Prepared Person	Tomoko Yamada

No.	Material name	Mass (mg)	Substance name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	32.0	Activated carbon	7440-44-0	32.0	1.3
2	Current collector	6.0	Carbon black	1333-86-4	6.0	0.2
3	Separator	4.9	Polypropylene	9003-07-0	4.9	0.2
4	Electrolyte	91.2	Propylene carbonate	108-32-7	91.2	3.7
5	Terminal	1164.6	Iron	7439-89-6	1161.0	47.7
			Copper	7440-50-8	3.6	0.148
6	Terminal plating	29.9	Tin	7440-31-5	29.9	1.229
7	Top cover	275.0	Iron	7439-89-6	191.1	7.9
			Chromium	7440-47-3	55.0	2.3
			Nickel	7440-02-0	28.9	1.2
8	Spring plate	172.9	Iron	7439-89-6	131.4	5.4
			Chromium	7440-47-3	29.4	1.2
			Nickel	7440-02-0	12.1	0.5
9	Bottom case	421.3	Iron	7439-89-6	300.5	12.4
			Chromium	7440-47-3	79.2	3.3
			Nickel	7440-02-0	41.6	1.7
10	Sealer	34.0	Polypropylene	9003-07-0	31.8	1.3
			Styrene-Butadiene based rubber	66070-58-4	2.2	0.1
11	Insulator	111.2	Polypropylene	9003-07-0	111.2	4.6
12	Outer sleeve	90.0	Polyethylene terephthalate	25038-59-9	90.0	3.7
13	Ink	0.1	Nitrocellulose	9004-70-0	0.1	0.004
Total	-----	2433.1	-----	-----	2433.1	100.0

Material List

Product name	Electric Double Layer Capacitors
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Type Series	Stacked coin Type NF series
Part Number	EECF5R5U474
Weight (g)	9.0192

Company	Automotive & Industrial Systems Company, Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, JAPAN
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material name	Mass (mg)	Substance name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	1340.6	Activated carbon	7440-44-0	1340.6	14.9
2	Current collector	19.0	Carbon black	1333-86-4	19.0	0.2
3	Separator	19.0	Polypropylene	9003-07-0	19.0	0.2
4	Electrolyte	320.6	Propylene carbonate	108-32-7	320.6	3.6
5	Terminal	3345.3	Iron	7439-89-6	3335.0	37.0
			Copper	7440-50-8	10.3	0.114
6	Terminal plating	85.8	Tin	7440-31-5	85.8	0.951
7	Top cover	1230.8	Iron	7439-89-6	855.4	9.5
			Chromium	7440-47-3	246.2	2.7
			Nickel	7440-02-0	129.2	1.4
8	Spring plate	664.0	Iron	7439-89-6	504.6	5.6
			Chromium	7440-47-3	112.9	1.3
			Nickel	7440-02-0	46.5	0.5
9	Bottom case	1639.2	Iron	7439-89-6	1169.2	13.0
			Chromium	7440-47-3	308.2	3.4
			Nickel	7440-02-0	161.8	1.8
10	Sealer	121.8	Polypropylene	9003-07-0	114.0	1.3
			Styrene-Butadiene based rubber	66070-58-4	7.8	0.1
11	Insulator	118.0	Polypropylene	9003-07-0	118.0	1.3
12	Outer sleeve	115.0	Polyethylene terephthalate	25038-59-9	115.0	1.3
13	Ink	0.1	Nitrocellulose	9004-70-0	0.1	0.001
Total	-----	9019.2	-----	-----	9019.2	100.0

Material List

Product Name	Electric Double Layer Capacitors
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Type Series	Stacked Coin RG Series
Part Number	EECRG0V105H
Weight(g)	4.7311

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	392.0	Activated carbon	7440-44-0	392.0	8.29
2	Current collector	19.6	Carbon black	1333-86-4	19.6	0.41
3	Separator	57.0	Polypropylene	9003-07-0	57.0	1.21
4	Electrolyte	324.0	Propylene carbonate	108-32-7	324.0	6.85
5	Terminal	421.2	Iron	7439-89-6	292.8	6.19
			Chromium	7440-47-3	84.2	1.78
			Nickel	7440-02-0	44.2	0.93
6	Terminal plating	3.0	Nickel, Tin	7440-31-5	3.0	0.06
7	Top cover	1218.3	Iron	7439-89-6	846.7	17.90
			Chromium	7440-47-3	243.7	5.15
			Nickel	7440-02-0	127.9	2.70
8	Connection cup	271.6	Iron	7439-89-6	188.8	3.99
			Chromium	7440-47-3	54.3	1.15
			Nickel	7440-02-0	28.5	0.60
9	Bottom case	1815.8	Iron	7439-89-6	762.7	16.12
			Chromium	7440-47-3	417.6	8.83
			Nickel	7440-02-0	635.5	13.43
10	Sealer	133.8	Polypropylene	9003-07-0	125.2	2.65
			Styrene-Butadiene based rubber	66070-58-4	8.6	0.18
11	Outer sleeve	74.7	Polyethylene terephthalate	25038-59-9	74.7	1.58
12	Ink	0.1	Nitrocellulose	9004-70-0	0.10	0.002
Total	-----	4731.1	-----	-----	4731.1	100.0

Material List

Product Name	Electric Double Layer Capacitors
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Type Series	Stacked Coin RG Series
Part Number	EECRG0V224H
Weight(g)	1.0678

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	23.9	Activated carbon	7440-44-0	23.9	2.24
2	Current collector	11.9	Carbon black	1333-86-4	11.9	1.11
3	Separator	0.8	Polypropylene	9003-07-0	0.8	0.08
4	Electrolyte	94.2	Propylene carbonate	108-32-7	94.2	8.82
5	Terminal	50.6	Iron	7439-89-6	35.2	3.30
			Chromium	7440-47-3	10.1	0.95
			Nickel	7440-02-0	5.3	0.50
6	Terminal plating	0.1	Nickel, Tin	7440-31-5	0.1	0.01
7	Top cover	297.9	Iron	7439-89-6	207.0	19.39
			Chromium	7440-47-3	59.6	5.58
			Nickel	7440-02-0	31.3	2.93
8	Connection cup	73.2	Iron	7439-89-6	50.9	4.77
			Chromium	7440-47-3	14.6	1.37
			Nickel	7440-02-0	7.7	0.72
9	Bottom case	453.4	Iron	7439-89-6	190.4	17.83
			Chromium	7440-47-3	104.3	9.77
			Nickel	7440-02-0	158.7	14.86
10	Sealer	34.8	Polypropylene	9003-07-0	32.6	3.05
			Styrene-Butadiene based rubber	66070-58-4	2.2	0.21
11	Outer sleeve	26.9	Polyethylene terephthalate	25038-59-9	26.9	2.52
12	Ink	0.1	Nitrocellulose	9004-70-0	0.10	0.009
Total	-----	1067.8	-----	-----	1067.8	100.0

Material List

Product Name	Electric Double Layer Capacitors
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Type Series	Stacked Coin SG Series
Part Number	EECS5R5H474
Weight(g)	5.7668

Company Name	Automotive & Industrial Systems Company, Panasonic Corporation
Address	25 Kowata-Nishinaka, Uji, Kyoto 611-8585, Japan
Department Name	Environment Management Section, Engineering & Quality Planning Department, Device Solutions Business Division
Responsible Person	Kunihiko Ooishi
Prepared Person	Tomoko Yamada

No.	Material Name	Mass (mg)	Substance Name	CAS No.	Content (mg)	Content Rate (%)
1	Electrode	1340.6	Activated carbon	7440-44-0	1340.6	23.25
2	Current collector	19.0	Carbon black	1333-86-4	19.0	0.33
3	Separator	19.0	Polypropylene	9003-07-0	19.0	0.33
4	Electrolyte	320.6	Propylene carbonate	108-32-7	320.6	5.56
5	Terminal	452.3	Iron	7439-89-6	314.3	5.45
			Chromium	7440-47-3	90.5	1.57
			Nickel	7440-02-0	47.5	0.82
6	Terminal plating	0.9	Nickel, Tin	7440-31-5	0.9	0.02
7	Top cover	1230.7	Iron	7439-89-6	855.4	14.83
			Chromium	7440-47-3	246.1	4.27
			Nickel	7440-02-0	129.2	2.24
8	Connection cup	545.7	Iron	7439-89-6	379.2	6.58
			Chromium	7440-47-3	109.2	1.89
			Nickel	7440-02-0	57.3	0.99
9	Bottom case	1639.1	Iron	7439-89-6	1169.1	20.27
			Chromium	7440-47-3	308.2	5.34
			Nickel	7440-02-0	161.8	2.81
10	Sealer	121.8	Polypropylene	9003-07-0	114.0	1.98
			Styrene-Butadiene based rubber	66070-58-4	7.8	0.14
11	Outer sleeve	77.0	Polyethylene terephthalate	25038-59-9	77.0	1.34
12	Ink	0.1	Nitrocellulose	9004-70-0	0.10	0.002
Total	-----	5766.8	-----	-----	5766.8	100.0