To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To : Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

Type	Surface Mount Type
Part Number	EEEFC1V2R2R 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

To : Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

Type	Surface Mount Type
Part Number	EEEFC1V100R
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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

Type	Surface Mount Type
Part Number	EEEFC1V220P 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

To : Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To : Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

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

To : Mettler Toledo

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Material List

Product Name	Aluminum Electrolytic Capacitors

Type	Surface Mount Type
Part Number	EEEFC1V470AP EEEFC1V470P
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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Aluminum Electrolytic Capacitors

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

To : Mettler Toledo

March 17, 2016

Material List

Product name	Electric Double Layer Capacitors

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 Ooishi
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	ー ー ー	10122	ー ー ー	ー ー ー	ー ー ー	10122	100.1

To : Mettler Toledo

March 17, 2016

Material List

Product name	Electric Double Layer Capacitors

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

To: Mettler Toledo

March 17, 2016

Material List

Product name	Electric Double Layer Capacitors

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 Ooishi
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

To: Mettler Toledo

March 17, 2016

Material List

Product name	Electric Double Layer Capacitors

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 Ooishi
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

To: Mettler Toledo

March 17, 2016

Material List

Product name	Electric Double Layer Capacitors

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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Electric Double Layer Capacitors

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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Electric Double Layer Capacitors

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

To : Mettler Toledo

March 17, 2016

Material List

Product Name	Electric Double Layer Capacitors

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