



Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2024-06-25
Contact name*	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact phone*	Refer to Supplier Comment section	Contact email*	Refer to Supplier Comment section
Authorized representative*	Antonella Lanzafame	Representative title	AMSMaterial Declaration champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty statement

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.

Legal statement

Supplier acceptance*	true	Legal declaration*	Standard
Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.			



Product				
Mfr item number	Mfr item name	Version	Manufacturing site	date
ST87M01-1101	115P*HR00BE1	A	AF1A	2024-06-25
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	650	mg	Each	ECOPACK® 3
Identity	Authority			
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
3	245	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), immersion	Copper Alloy	0	

Package designator	Package size	Number of instances	Shape	
mounted board	12.8 x 10.6	43	nac	
Comment				
Comment	BOFX SMD MODULE			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	false
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Exemption Id.	Description

QueryList : ELV directive : 2000/53/EC amended 2020/363_March 2020	Response
1 - Product(s) meets EU ELV requirements without any exemptions	true
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
Exemption Id.	Description

QueryList : California Prop65 list, dated 17th Nov 2023	Response		
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen	FALSE		
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen	TRUE		
Substance	amount in product (mg)	Application	ppm in product
Nickel	7.672	alloy	11803

QueryList :Customer	Response
QUERY	Response

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014	Response			
QUERY	Response			
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products	false			
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products	false			
Hazardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE
0	0	0	0	0

QueryList : REACH-23rd January 2024	Response			
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH	false			
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Diboron trioxide	1000 ppm	0.16	on glass	1989
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH	false			
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material
Diboron trioxide	1000 ppm	0.15943	on glass	1989



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	Cobalt, Gold, Tin, Tungsten,

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true

QueryList : EUSRR Directive	Response
Product contains hazardous materials listed in EUSRR Annex II	TRUE

PFAS/PTFE Declaration	Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene, Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride	False

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	119PHR00BE1		649.9999		10295444.0	487276.0
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
U204 (STNB81195CBBFMT0)	M-011 Other inorganic materials	12.836	mg	supplier	die	Silicon(Si)	7440-21-3		1.877	mg	146229	2844
U204 (STNB81195CBBFMT0)				supplier	metallisation	Aluminium(Al)	7429-90-5		0.011	mg	857	17
U204 (STNB81195CBBFMT0)				supplier	metallisation	Copper(Cu)	7440-50-8		0.054	mg	4207	82
U204 (STNB81195CBBFMT0)				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	78	2
U204 (STNB81195CBBFMT0)				supplier	metallisation	Titanium(Ti)	7440-32-6		0.006	mg	467	9
U204 (STNB81195CBBFMT0)				supplier	metallisation	Tungsten(W)	7440-33-7		0.006	mg	467	9
U204 (STNB81195CBBFMT0)				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.006	mg	467	9
U204 (STNB81195CBBFMT0)				supplier	passivation	Silicon Oxide	7631-86-9		0.068	mg	5298	103
U204 (STNB81195CBBFMT0)				Supplier	laminate	Glass, oxide	65997-17-3		1.267	mg	98707	1920
U204 (STNB81195CBBFMT0)				Supplier	laminate	Silicon dioxide	7631-86-9		0.631	mg	49159	956
U204 (STNB81195CBBFMT0)				Supplier	laminate	Bismaleimide-Triazine resin	Proprietary		0.309	mg	24073	468
U204 (STNB81195CBBFMT0)				Supplier	laminate	Epoxy resin	Proprietary		0.215	mg	16750	326
U204 (STNB81195CBBFMT0)				Supplier	laminate	Other substances	Proprietary		0.166	mg	12932	252
U204 (STNB81195CBBFMT0)				Supplier	laminate	Cured Resin	Proprietary		0.186	mg	14490	282
U204 (STNB81195CBBFMT0)				Supplier	laminate	Colorant	147-14-8		0.001	mg	78	2
U204 (STNB81195CBBFMT0)				Supplier	laminate	Organic pigment	Proprietary		0.001	mg	78	2
U204 (STNB81195CBBFMT0)				Supplier	laminate	Barium sulfate	7727-43-7		0.029	mg	2259	44
U204 (STNB81195CBBFMT0)				Supplier	laminate	Talc	14807-96-6		0.037	mg	2883	56
U204 (STNB81195CBBFMT0)				Supplier	laminate	Aluminium hydroxide	21645-51-2		0.001	mg	78	2
U204 (STNB81195CBBFMT0)				Supplier	laminate	Antifoamer and Levelling agent	Proprietary		0.013	mg	1013	20
U204 (STNB81195CBBFMT0)				Supplier	laminate	Copper	7440-50-8		2.453	mg	191103	3717
U204 (STNB81195CBBFMT0)				Supplier	laminate	Nickel	7440-02-0		0.154	mg	11998	233
U204 (STNB81195CBBFMT0)				Supplier	laminate	Gold	7440-57-5		0.033	mg	2571	50
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Epoxy Resin A	Proprietary		0.373	mg	29059	565
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Epoxy Resin B	Proprietary		0.124	mg	9660	188
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Phenol Resin A	Proprietary		0.124	mg	9660	188
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Silica, vitreous	60676-86-0		3.232	mg	251792	4897
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Silicon dioxide	7631-86-9		0.994	mg	77438	1506
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Metal Hydroxide	Proprietary		0.099	mg	7713	150
U204 (STNB81195CBBFMT0)				Supplier	Mold Compound	Carbon Black	1333-86-4		0.025	mg	1948	38
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Copper	7440-50-8		0.105	mg	8180	159
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Tin	7440-31-5		0.055	mg	4285	83
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Silver	7440-22-4		0.001	mg	78	2
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Copper	7440-50-8		0.116	mg	9037	176
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Tin	7440-31-5		0.062	mg	4830	94
U204 (STNB81195CBBFMT0)				Supplier	Cu pillar	Silver	7440-22-4		0.001	mg	78	2
U203 (8Y38472018)	M-011 Other inorganic materials	6.790	mg	supplier	Crystal blank	SiO2	7440-21-3		0.527	mg	77590	798
U203 (8Y38472018)				supplier	Electrode	Cr	7440-47-3		0.056	mg	8190	84
U203 (8Y38472018)				supplier	Electrode	Gold (Au)	7440-57-5		0.003	mg	431	4
U203 (8Y38472018)				supplier	Base	Aluminum Oxide	1344-28-1		3.849	mg	566881	5832
U203 (8Y38472018)				supplier	Base	SiO2	7631-86-9		0.171	mg	25215	259
U203 (8Y38472018)				supplier	Base	Cr2O3	1308-38-9		0.043	mg	6289	65
U203 (8Y38472018)				supplier	Base	Molybdenum	7439-98-7		0.043	mg	6289	65
U203 (8Y38472018)				supplier	kovar ring	Iron (Fe)	7439-89-6		0.050	mg	7337	75
U203 (8Y38472018)				supplier	kovar ring	Nickel (Ni)	7440-02-0		0.027	mg	4015	41
U203 (8Y38472018)				supplier	kovar ring	Cobalt (Co)	7440-48-4		0.017	mg	2492	26
U203 (8Y38472018)				supplier	plate	Gold	7440-50-8		0.027	mg	3945	41
U203 (8Y38472018)				supplier	plate	Nickel (Ni)	7440-02-0		0.114	mg	16820	173
U203 (8Y38472018)				supplier	Metallizing	W	7440-33-7		0.047	mg	6922	71
U203 (8Y38472018)				supplier	Solder	Ag	7440-22-4		0.100	mg	14743	152
U203 (8Y38472018)				supplier	Solder	Cu	7440-50-8		0.041	mg	6022	62
U203 (8Y38472018)				supplier	Base Material	Fe	7439-89-6		0.770	mg	113364	1166
U203 (8Y38472018)				supplier	Base Material	Ni	7440-02-0		0.420	mg	61919	637
U203 (8Y38472018)				supplier	Base Material	Co	7440-48-4		0.245	mg	36093	371
U203 (8Y38472018)				supplier	Base Material	Mn	7439-96-5		0.006	mg	915	9
U203 (8Y38472018)				supplier	Base Material	C	7440-44-0		0.000	mg	21	0
U203 (8Y38472018)				supplier	Base Material	Si	7440-21-3		0.001	mg	149	2
U203 (8Y38472018)				supplier	Base Material	Cr	7440-47-3		0.001	mg	100	1
U203 (8Y38472018)				supplier	Base Material	Ni	7440-02-0		0.133	mg	19535	201



U203 (8Y38472018)			supplier	Silver adhesive	Ag	7440-22-4		0.070	mg	10309	106
U203 (8Y38472018)			supplier	Silver adhesive	SiO2	631-86-9		0.005	mg	736	8
U203 (8Y38472018)			supplier	Silver adhesive	Silicone resin	Proprietary		0.025	mg	3682	38
U201 (ST8700)	M-011 Other inorganic materials	20.534	mg	supplier	Silicon	7440-21-3		12.865	mg	626530	19493
U201 (ST8700)			supplier	Coating film	Silica	Proprietary		0.430	mg	20929	651
U201 (ST8700)			supplier	Coating film	Epoxy resin	Proprietary		0.159	mg	7766	242
U201 (ST8700)			supplier	Coating film	Acrylic resin	Proprietary		0.159	mg	7766	242
U201 (ST8700)			supplier	Solder ball	Tin	7440-31-5		4.005	mg	195056	6069
U201 (ST8700)			supplier	Solder ball	Silver	7440-22-4		0.168	mg	8170	254
U201 (ST8700)			supplier	Solder ball	Copper	7440-50-8		0.021	mg	1021	32
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Gamma-Butyrolactone	96-48-0		0.150	mg	7307	227
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Polyamic acid ester	Proprietary		0.117	mg	5683	177
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Dimethyl sulfoxide	67-68-5		0.043	mg	2111	66
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Tetraethylene glycol dimethacrylate	Proprietary		0.017	mg	812	25
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Trialkoxylated amidocarboxylic silane	Proprietary		0.003	mg	162	5
U201 (ST8700)			supplier	Repassivation polymer(LTC9320)	Oxime derivative	Proprietary		0.003	mg	162	5
U201 (ST8700)			supplier	Runner/UBM (Metal Sputter)	Titanium	7440-32-6		0.008	mg	400	12
U201 (ST8700)			supplier	Runner/UBM (Metal Sputter)	Copper	7440-50-8		0.032	mg	1574	49
U201 (ST8700)			supplier	Runner/UBM (Metal Sputter)	Titanium	7440-32-6		0.008	mg	400	12
U201 (ST8700)			supplier	Runner/UBM (Metal Sputter)	Copper	7440-50-8		0.032	mg	1574	49
U201 (ST8700)			supplier	RDL Copper	Copper	7440-50-8		0.970	mg	47234	1470
U201 (ST8700)			supplier	UBM Copper	Copper	7440-50-8		1.342	mg	65341	2033
PCB		280.300	mg	supplier	PWB Base Material_copper foil	Copper (Cu)	7440-50-8	82.000	mg	292544	124242
PCB			supplier	PWB Base Material_laminate	Epoxy resin	26265-08-7		79.000	mg	281841	119697
PCB			supplier	PWB Base Material_laminate	Fiber glass	65997-17-3		89.000	mg	317517	134848
PCB			supplier	PWB Solder Resist	Barium Sulfate	7727-43-7		12.000	mg	42811	18182
PCB			supplier	PWB Solder Resist	Epoxy and acrylate resin	Proprietary		12.000	mg	42811	18182
PCB			supplier	Immersion Gold	GOLD (Au)	7440-57-5		0.300	mg	1070	455
PCB			supplier	Electroless Nickel	Nickel (Ni)	7440-02-0		6.000	mg	21406	9091
Capacitor C201 (GRM0225C0J101JA02)	M-010 Ceramics / glass	0.090	mg	supplier	Copper alloys	7440-50-8		0.027	mg	300000	41
Capacitor C201 (GRM0225C0J101JA02)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6667	1
Capacitor C201 (GRM0225C0J101JA02)			supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	26667	4
Capacitor C201 (GRM0225C0J101JA02)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	33333	5
Capacitor C201 (GRM0225C0J101JA02)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	22222	3
Capacitor C201 (GRM0225C0J101JA02)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	7777	11
Capacitor C201 (GRM0225C0J101JA02)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.024	mg	266667	36
Capacitor C201 (GRM0225C0J101JA02)			supplier	Ceramic	Calcium oxide	1305-78-8		0.019	mg	213333	29
Capacitor C201 (GRM0225C0J101JA02)			supplier	Ceramic	Misc	Proprietary		0.005	mg	53333	7
Capacitor C202 (GRM022R61A103KE19)	M-010 Ceramics / glass	0.090	mg	supplier	Copper alloys	7440-50-8		0.026	mg	290000	40
Capacitor C202 (GRM022R61A103KE19)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6444	1
Capacitor C202 (GRM022R61A103KE19)			supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	25778	4
Capacitor C202 (GRM022R61A103KE19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	33333	5
Capacitor C202 (GRM022R61A103KE19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	22222	3
Capacitor C202 (GRM022R61A103KE19)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	7777	11
Capacitor C202 (GRM022R61A103KE19)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.029	mg	326667	45
Capacitor C202 (GRM022R61A103KE19)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.0147	mg	163333	22
Capacitor C202 (GRM022R61A103KE19)			supplier	Ceramic	Misc	Proprietary		0.0049	mg	54444	7
Capacitor C203 (GRM0225C1H100JA03)	M-010 Ceramics / glass	0.090	mg	supplier	Copper alloys	7440-50-8		0.0270	mg	300000	41
Capacitor C203 (GRM0225C1H100JA03)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.0006	mg	6667	1
Capacitor C203 (GRM0225C1H100JA03)			supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	26667	4
Capacitor C203 (GRM0225C1H100JA03)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.0030	mg	33333	5
Capacitor C203 (GRM0225C1H100JA03)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	22222	3
Capacitor C203 (GRM0225C1H100JA03)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.0070	mg	7777	11
Capacitor C203 (GRM0225C1H100JA03)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.0240	mg	266667	36
Capacitor C203 (GRM0225C1H100JA03)			supplier	Ceramic	Calcium oxide	1305-78-8		0.019	mg	213333	29
Capacitor C203 (GRM0225C1H100JA03)			supplier	Ceramic	Misc	Proprietary		0.005	mg	53333	7
Capacitor C206 (GRM033R60J474ME90)	M-011 Other inorganic materials	0.330	mg	supplier	Copper alloys	7440-50-8		0.068	mg	207273	104
Capacitor C206 (GRM033R60J474ME90)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.002	mg	4606	2
Capacitor C206 (GRM033R60J474ME90)			supplier	Glass	Silicon dioxide	7631-86-9		0.006	mg	18424	9
Capacitor C206 (GRM033R60J474ME90)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.007	mg	21212	11
Capacitor C206 (GRM033R60J474ME90)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.008	mg	24242	12



Capacitor C206 (GRM033R60J474ME90)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.019	mg	57576	29
Capacitor C206 (GRM033R60J474ME90)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.132	mg	400000	200
Capacitor C206 (GRM033R60J474ME90)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.066	mg	200000	100
Capacitor C206 (GRM033R60J474ME90)			supplier	Ceramic	Misc	Proprietary		0.022	mg	66667	33
Capacitor C207 (GRM033R60J224ME15) M-011 Other inorganic materials	0.330	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.068	mg	207273	104
Capacitor C207 (GRM033R60J224ME15)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.002	mg	4606	2
Capacitor C207 (GRM033R60J224ME15)			supplier	Glass	Silicon dioxide	7631-86-9		0.006	mg	18424	9
Capacitor C207 (GRM033R60J224ME15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.007	mg	21212	11
Capacitor C207 (GRM033R60J224ME15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.008	mg	24242	12
Capacitor C207 (GRM033R60J224ME15)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.019	mg	57576	29
Capacitor C207 (GRM033R60J224ME15)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.132	mg	400000	200
Capacitor C207 (GRM033R60J224ME15)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.066	mg	200000	100
Capacitor C207 (GRM033R60J224ME15)			supplier	Ceramic	Misc	Proprietary		0.022	mg	66667	33
Capacitor C209.C212 (GRM022R60J103M-011 Other inorganic materials)	0.180	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.052	mg	290000	79
Capacitor C209.C212 (GRM022R60J103ME19)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.0012	mg	6444	2
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Glass	Silicon dioxide	7631-86-9		0.005	mg	25778	7
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.006	mg	33333	9
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.004	mg	22222	6
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.014	mg	77778	21
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.059	mg	326667	89
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.029	mg	163333	45
Capacitor C209.C212 (GRM022R60J103ME19)			supplier	Ceramic	Misc	Proprietary		0.010	mg	54444	15
Capacitor C213 (GRM022R60J473ME15) M-011 Other inorganic materials	0.090	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.026	mg	290000	40
Capacitor C213 (GRM022R60J473ME15)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6444	1
Capacitor C213 (GRM022R60J473ME15)			supplier	Glass	Silicon dioxide	7631-86-9		0.002	mg	25778	4
Capacitor C213 (GRM022R60J473ME15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.003	mg	33333	5
Capacitor C213 (GRM022R60J473ME15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.002	mg	22222	3
Capacitor C213 (GRM022R60J473ME15)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	77778	11
Capacitor C213 (GRM022R60J473ME15)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.029	mg	326667	45
Capacitor C213 (GRM022R60J473ME15)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.015	mg	163333	22
Capacitor C213 (GRM022R60J473ME15)			supplier	Ceramic	Misc	Proprietary		0.005	mg	54444	7
Capacitor C214.C223 (GRM033C81A105 M-011 Other inorganic materials)	0.660	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.137	mg	207273	207
Capacitor C214.C223 (GRM033C81A105ME05)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.003	mg	4606	5
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Glass	Silicon dioxide	7631-86-9		0.012	mg	18424	18
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.014	mg	21212	21
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.016	mg	24242	24
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.0380	mg	57576	58
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.2640	mg	400000	400
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.132	mg	200000	200
Capacitor C214.C223 (GRM033C81A105ME05)			supplier	Ceramic	Misc	Proprietary		0.044	mg	66667	67
Capacitor C218.C220.C224 (GRM022R6 M-011 Other inorganic materials)	0.270	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.078	mg	290000	119
Capacitor C218.C220.C224 (GRM022R60J104KE15)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.002	mg	6444	3
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Glass	Silicon dioxide	7631-86-9		0.0070	mg	25778	11
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.009	mg	33333	14
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.006	mg	22222	9
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.021	mg	77778	32
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.088	mg	326667	134
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.044	mg	163333	67
Capacitor C218.C220.C224 (GRM022R60J104KE15)			supplier	Ceramic	Misc	Proprietary		0.015	mg	54444	22
Capacitor C221 (GRM0335C1H1R0CA01) M-011 Other inorganic materials	0.330	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.0720	mg	218182	109
Capacitor C221 (GRM0335C1H1R0CA01)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.0016	mg	4848	2
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Glass	Silicon dioxide	7631-86-9		0.0064	mg	19394	10
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.007	mg	21212	11
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.009	mg	27273	14
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.020	mg	60606	30
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.107	mg	324242	162
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Ceramic	Calcium oxide	1305-78-8		0.086	mg	259394	130
Capacitor C221 (GRM0335C1H1R0CA01)			supplier	Ceramic	Misc	Proprietary		0.021	mg	64848	32
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)	6.400	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.688	mg	107438	1042
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.015	mg	2388	23
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Glass	Silicon dioxide	7631-86-9		0.061	mg	9550	93



Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.072	mg	11250	109
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		1.116	mg	174375	1691
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.188	mg	29375	285
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier		Barium oxide, obtained by calcining witherite	1304-28-5		2.556	mg	399375	3873
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Ceramic	Titanium dioxide	13463-67-7		1.278	mg	199688	1936
Capacitor C222, C226, C227, C234 (GRM155R60J475ME47)			supplier	Ceramic	Misc	Proprietary		0.426	mg	66563	645
Capacitor C225 (GRM0335C1H8R2DA01) M-011 Other inorganic materials	0.330	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.072	mg	218182	109
Capacitor C225 (GRM0335C1H8R2DA01)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.002	mg	4848	2
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Glass	Silicon dioxide	7631-86-9		0.006	mg	19394	10
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.007	mg	21212	11
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.009	mg	27273	14
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.020	mg	60606	30
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.107	mg	324242	162
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Ceramic	Calcium oxide	1305-78-8		0.086	mg	259394	130
Capacitor C225 (GRM0335C1H8R2DA01)			supplier	Ceramic	Misc	Proprietary		0.021	mg	64848	32
Capacitor C230 (GRM0335C1E2R7BA01) M-011 Other inorganic materials	0.330	mg	supplier	Ceramic	Copper (Cu)	7440-50-8		0.072	mg	218182	109
Capacitor C230 (GRM0335C1E2R7BA01)			SVHC	Ceramic	Diboron trioxide; Boric oxide	1303-86-2		0.002	mg	4848	2
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Silicon dioxide	7631-86-9		0.006	mg	19394	10
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Nickel (Ni)	7440-02-0		0.007	mg	21212	11
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Nickel (Ni)	7440-02-0		0.009	mg	27273	14
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Tin (Sn)	7440-31-5		0.020	mg	60606	30
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.107	mg	324242	162
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Calcium oxide	1305-78-8		0.086	mg	259394	130
Capacitor C230 (GRM0335C1E2R7BA01)			supplier	Ceramic	Misc	Proprietary		0.021	mg	64848	32
Capacitor C231, C232 (GRM0225C1E1R8BA03) M-011 Other inorganic materials	0.180		supplier	Ceramic	Copper (Cu)	7440-50-8		0.054	mg	300000	82
Capacitor C231, C232 (GRM0225C1E1R8BA03)			SVHC	Ceramic	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6667	2
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Silicon dioxide	7631-86-9		0.005	mg	26667	7
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Nickel (Ni)	7440-02-0		0.006	mg	33333	9
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Nickel (Ni)	7440-02-0		0.004	mg	22222	6
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Tin (Sn)	7440-31-5		0.0140	mg	77778	21
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.0480	mg	266667	73
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Calcium oxide	1305-78-8		0.0384	mg	213333	58
Capacitor C231, C232 (GRM0225C1E1R8BA03)			supplier	Ceramic	Misc	Proprietary		0.010	mg	53333	15
Resistor R6, C235 (GRM0225C1E1R8BA03) M-011 Other inorganic materials	0.072	mg	supplier	Ceramics / Glass	Al2O3	1344-28-1		0.062	mg	857001	93
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Ceramics / Glass	SiO2	14808-60-7		0.003	mg	35708	4
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Precious metals	Ag	7440-22-4		0.000	mg	2328	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Precious metals	Pd	7440-05-3		0.0001	mg	873	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			SVHC	Precious metals	Lead (Pb)	7439-92-1		0.000	mg	1164	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Precious metals	RuO2	12036-10-1		0.000	mg	1455	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Ceramics / Glass	Ag	7440-22-4		0.001	mg	19802	2
Resistor R6, C235 (GRM0225C1E1R8BA03)			JIG-R & California 65	Ceramics / Glass	Glass Frit	65997-18-4		0.000	mg	1042	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Epoxy resin	Epoxy resin	25068-38-6		0.001	mg	19469	2
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	end terminal	Nickel	7440-02-0		0.000	mg	2455	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	end terminal	Chromium	7440-47-3		0.0000	mg	614	0
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Ni Plating	Nickel	7440-02-0		0.0022	mg	30685	3
Resistor R6, C235 (GRM0225C1E1R8BA03)			supplier	Tin plating	Tin	7440-31-5		0.0020	mg	27405	3
Capacitor C236, C237 (GRM0225C1H6R8CA03) M-011 Other inorganic materials	0.180	mg	supplier	supplier	Copper (Cu)	7440-50-8		0.054	mg	300000	82
Capacitor C236, C237 (GRM0225C1H6R8CA03)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6667	2
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Glass	Silicon dioxide	7631-86-9		0.005	mg	26667	7
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.006	mg	33333	9
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.0040	mg	22222	6
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.014	mg	77778	21
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Ceramic	Zirconium oxide	1314-23-4		0.048	mg	266667	73
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Ceramic	Calcium oxide	1305-78-8		0.038	mg	213333	58
Capacitor C236, C237 (GRM0225C1H6R8CA03)			supplier	Ceramic	Misc	Proprietary		0.010	mg	53333	15
Capacitor C239 (GRM022R61A102KE19) M-011 Other inorganic materials	0.090	mg	supplier	Copper alloys	Copper (Cu)	7440-50-8		0.026	mg	290000	40
Capacitor C239 (GRM022R61A102KE19)			SVHC	Glass	Diboron trioxide; Boric oxide	1303-86-2		0.001	mg	6444	1
Capacitor C239 (GRM022R61A102KE19)			supplier	Glass	Silicon dioxide	7631-86-9		0.0023	mg	25778	4
Capacitor C239 (GRM022R61A102KE19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.0030	mg	33333	5
Capacitor C239 (GRM022R61A102KE19)			supplier	Nickel and Nickel alloys	Nickel (Ni)	7440-02-0		0.0020	mg	22222	3
Capacitor C239 (GRM022R61A102KE19)			supplier	Tin plating	Tin (Sn)	7440-31-5		0.007	mg	77778	11



Capacitor C239 (GRM022R61A102KE19)			supplier	Ceramic	Barium oxide, obtained by calcining witherite	1304-28-5		0.029	mg	326667	45
Capacitor C239 (GRM022R61A102KE19)			supplier	Ceramic	Titanium dioxide	13463-67-7		0.015	mg	163333	22
Capacitor C239 (GRM022R61A102KE19)			supplier	Ceramic	Misc	Proprietary		0.005	mg	54444	7
Inductor L200 (LOP03TN15NH02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.0243	mg	185213	37
Inductor L200 (LOP03TN15NH02)			SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	2058	0
Inductor L200 (LOP03TN15NH02)			supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	18521	4
Inductor L200 (LOP03TN15NH02)			supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	121189	24
Inductor L200 (LOP03TN15NH02)			supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	58689	12
Inductor L200 (LOP03TN15NH02)			supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	71646	14
Inductor L200 (LOP03TN15NH02)			SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	6288	1
Inductor L200 (LOP03TN15NH02)			supplier	coating Glass	Silicon dioxide	7631-86-9		0.0039	mg	29345	6
Inductor L200 (LOP03TN15NH02)			supplier	coating Glass	Aluminium Oxide	1344-28-1		0.0003	mg	2096	0
Inductor L200 (LOP03TN15NH02)			supplier	coating Glass	Cobalt oxide	1307-96-6		0.0003	mg	2096	0
Inductor L200 (LOP03TN15NH02)			supplier	coating Glass	Misc	Proprietary		0.000	mg	2096	0
Inductor L200 (LOP03TN15NH02)			SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	83460	17
Inductor L200 (LOP03TN15NH02)			supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	417302	83
Inductor L200 (LOP03TN15NH02)			supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	333841	66
Inductor L201 (LOP03TN3N6C02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.024	mg	138857	37
Inductor L201 (LOP03TN3N6C02)			SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L201 (LOP03TN3N6C02)			supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L201 (LOP03TN3N6C02)			supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L201 (LOP03TN3N6C02)			supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L201 (LOP03TN3N6C02)			supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L201 (LOP03TN3N6C02)			SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L201 (LOP03TN3N6C02)			supplier	coating Glass	Silicon dioxide	7631-86-9		0.0039	mg	22000	6
Inductor L201 (LOP03TN3N6C02)			supplier	coating Glass	Aluminium Oxide	1344-28-1		0.0003	mg	1571	0
Inductor L201 (LOP03TN3N6C02)			supplier	coating Glass	Cobalt oxide	1307-96-6		0.0003	mg	1571	0
Inductor L201 (LOP03TN3N6C02)			supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L201 (LOP03TN3N6C02)			SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L201 (LOP03TN3N6C02)			supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L201 (LOP03TN3N6C02)			supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L202(LOP03TN3N6C02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.0243	mg	138857	37
Inductor L202(LOP03TN3N6C02)			supplier	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L202(LOP03TN3N6C02)			supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L202(LOP03TN3N6C02)			supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L202(LOP03TN3N6C02)			supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L202(LOP03TN3N6C02)			supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L202(LOP03TN3N6C02)			SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L202(LOP03TN3N6C02)			supplier	coating Glass	Silicon dioxide	7631-86-9		0.0039	mg	22000	6
Inductor L202(LOP03TN3N6C02)			supplier	coating Glass	Aluminium Oxide	1344-28-1		0.0003	mg	1571	0
Inductor L202(LOP03TN3N6C02)			supplier	coating Glass	Cobalt oxide	1307-96-6		0.0003	mg	1571	0
Inductor L202(LOP03TN3N6C02)			supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L202(LOP03TN3N6C02)			supplier	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L202(LOP03TN3N6C02)			supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L202(LOP03TN3N6C02)			supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L203(BLM15AX102SN1D)	M-011 Other inorganic materials	1.160	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.237	mg	204052	359
Inductor L203(BLM15AX102SN1D)			supplier	Outer electrode	diboron trioxide	1303-86-2		0.003	mg	2267	4
Inductor L203(BLM15AX102SN1D)			supplier	Outer electrode	Silicon dioxide	7631-86-9		0.024	mg	20405	36
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Iron (Fe)	7439-89-6		0.354	mg	304867	536
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Zinc oxide	1314-13-2		0.114	mg	98178	173
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Nickel (Ni)	7440-02-0		0.060	mg	51672	91
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Copper oxide	1317-38-0		0.0539	mg	46505	82
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Tin dioxide	18282-10-5		0.0060	mg	5167	9
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Misc	Proprietary		0.0060	mg	5167	9
Inductor L203(BLM15AX102SN1D)			supplier	Ceramic element	Manganese oxide	1317-35-7		0.006	mg	5167	9
Inductor L203(BLM15AX102SN1D)			supplier	Inner electrode	Silver (Ag)	7440-22-4		0.225	mg	193966	341
Inductor L203(BLM15AX102SN1D)			supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.040	mg	34310	60
Inductor L203(BLM15AX102SN1D)			supplier	Plating Layer	Tin (Sn)	7440-31-5		0.033	mg	28276	50
Inductor L204 (LQM18PN3R3MFR)	M-011 Other inorganic materials	5.600	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.176	mg	31500	267
Inductor L204 (LQM18PN3R3MFR)			SVHC	Outer electrode	diboron trioxide	1303-86-2		0.002	mg	350	3
Inductor L204 (LQM18PN3R3MFR)			supplier	Outer electrode	Silicon dioxide	7631-86-9		0.018	mg	3150	27



Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Iron (Fe)	7439-89-6		2.511	mg	448400	3805
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Zinc oxide	1314-13-2		0.8086	mg	144400	1225
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Nickel monoxide	1313-99-1		0.383	mg	68400	580
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Copper oxide, Copper (1317-38-0		0.383	mg	68400	580
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Bismuth oxide	1304-76-3		0.043	mg	7600	64
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Tin dioxide	18282-10-5		0.0426	mg	7600	64
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Misc	Proprietary		0.043	mg	7600	64
Inductor L204 (LOM18PN3R3MFR)				supplier	Ceramic element	Manganese oxide	1317-35-7		0.0426	mg	7600	64
Inductor L204 (LOM18PN3R3MFR)				supplier	Inner electrode	Silver (Ag)	7440-22-4		1.0500	mg	187500	1591
Inductor L204 (LOM18PN3R3MFR)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.049	mg	8750	74
Inductor L204 (LOM18PN3R3MFR)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.049	mg	8750	74
Inductor L205 (LQP03TNR10H02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4		0.024	mg	138857	37
Inductor L205 (LQP03TNR10H02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L205 (LQP03TNR10H02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L205 (LQP03TNR10H02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L205 (LQP03TNR10H02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L205 (LQP03TNR10H02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L205 (LQP03TNR10H02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.0008	mg	4714	1
Inductor L205 (LQP03TNR10H02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22000	6
Inductor L205 (LQP03TNR10H02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1571	0
Inductor L205 (LQP03TNR10H02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1571	0
Inductor L205 (LQP03TNR10H02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L205 (LQP03TNR10H02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L205 (LQP03TNR10H02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L205 (LQP03TNR10H02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L206(LQP03TN12NH02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4		0.024	mg	138857	37
Inductor L206(LQP03TN12NH02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L206(LQP03TN12NH02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L206(LQP03TN12NH02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L206(LQP03TN12NH02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L206(LQP03TN12NH02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L206(LQP03TN12NH02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L206(LQP03TN12NH02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22000	6
Inductor L206(LQP03TN12NH02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1571	0
Inductor L206(LQP03TN12NH02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1571	0
Inductor L206(LQP03TN12NH02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L206(LQP03TN12NH02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L206(LQP03TN12NH02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L206(LQP03TN12NH02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L207(LQP03TN22NH02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4		0.024	mg	138857	37
Inductor L207(LQP03TN22NH02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L207(LQP03TN22NH02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L207(LQP03TN22NH02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L207(LQP03TN22NH02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L207(LQP03TN22NH02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L207(LQP03TN22NH02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L207(LQP03TN22NH02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22000	6
Inductor L207(LQP03TN22NH02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1571	0
Inductor L207(LQP03TN22NH02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1571	0
Inductor L207(LQP03TN22NH02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L207(LQP03TN22NH02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L207(LQP03TN22NH02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L207(LQP03TN22NH02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L208(LQP03TN22NH02)	M-011 Other inorganic materials	0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4		0.024	mg	138857	37
Inductor L208(LQP03TN22NH02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L208(LQP03TN22NH02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L208(LQP03TN22NH02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L208(LQP03TN22NH02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L208(LQP03TN22NH02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L208(LQP03TN22NH02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L208(LQP03TN22NH02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22000	6



Inductor L208(LQP03TN22NH02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1571	0
Inductor L208(LQP03TN22NH02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1571	0
Inductor L208(LQP03TN22NH02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L208(LQP03TN22NH02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L208(LQP03TN22NH02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L208(LQP03TN22NH02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L209 (LQP03TN8N2H02)	M-011 Other inorganic materials		0.175	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.024	mg	138857	37
Inductor L209 (LQP03TN8N2H02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L209 (LQP03TN8N2H02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13886	4
Inductor L209 (LQP03TN8N2H02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90857	24
Inductor L209 (LQP03TN8N2H02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44000	12
Inductor L209 (LQP03TN8N2H02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53714	14
Inductor L209 (LQP03TN8N2H02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4714	1
Inductor L209 (LQP03TN8N2H02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22000	6
Inductor L209 (LQP03TN8N2H02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1571	0
Inductor L209 (LQP03TN8N2H02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1571	0
Inductor L209 (LQP03TN8N2H02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1571	0
Inductor L209 (LQP03TN8N2H02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62571	17
Inductor L209 (LQP03TN8N2H02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312857	83
Inductor L209 (LQP03TN8N2H02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250286	66
Inductor L210 (LQP03TN3N3B02)	M-011 Other inorganic materials		0.17499	mg	supplier	Outer electrode	Silver (Ag)	7440-22-4	0.024	mg	138865	37
Inductor L210 (LQP03TN3N3B02)				SVHC	Outer electrode	diboron trioxide	1303-86-2		0.000	mg	1543	0
Inductor L210 (LQP03TN3N3B02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	13887	4
Inductor L210 (LQP03TN3N3B02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.016	mg	90862	24
Inductor L210 (LQP03TN3N3B02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	44003	12
Inductor L210 (LQP03TN3N3B02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	53717	14
Inductor L210 (LQP03TN3N3B02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	4686	1
Inductor L210 (LQP03TN3N3B02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	22001	6
Inductor L210 (LQP03TN3N3B02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1572	0
Inductor L210 (LQP03TN3N3B02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1543	0
Inductor L210 (LQP03TN3N3B02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1572	0
Inductor L210 (LQP03TN3N3B02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	62575	17
Inductor L210 (LQP03TN3N3B02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	312875	83
Inductor L210 (LQP03TN3N3B02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	250300	66
Inductor L211 (LQP03TN2N7B02)	M-011 Other inorganic materials		0.17499	mg	SVHC	Outer electrode	diboron trioxide	1303-86-2	0.000	mg	1792	0
Inductor L211 (LQP03TN2N7B02)				supplier	Outer electrode	Silicon dioxide	7631-86-9		0.002	mg	16126	4
Inductor L211 (LQP03TN2N7B02)				supplier	Inner electrode	Silver (Ag)	7440-22-4		0.040	mg	26673	61
Inductor L211 (LQP03TN2N7B02)				supplier	Plating Layer	Nickel (Ni)	7440-02-0		0.008	mg	51098	12
Inductor L211 (LQP03TN2N7B02)				supplier	Plating Layer	Tin (Sn)	7440-31-5		0.009	mg	62380	14
Inductor L211 (LQP03TN2N7B02)				SVHC	coating Glass	diboron trioxide	1303-86-2		0.001	mg	5442	1
Inductor L211 (LQP03TN2N7B02)				supplier	coating Glass	Silicon dioxide	7631-86-9		0.004	mg	25549	6
Inductor L211 (LQP03TN2N7B02)				supplier	coating Glass	Aluminium Oxide	1344-28-1		0.000	mg	1825	0
Inductor L211 (LQP03TN2N7B02)				supplier	coating Glass	Cobalt oxide	1307-96-6		0.000	mg	1792	0
Inductor L211 (LQP03TN2N7B02)				supplier	coating Glass	Misc	Proprietary		0.000	mg	1825	0
Inductor L211 (LQP03TN2N7B02)				SVHC	Insulation Layer/Glass	diboron trioxide	1303-86-2		0.011	mg	72666	17
Inductor L211 (LQP03TN2N7B02)				supplier	Insulation Layer/Glass	Silicon dioxide	7631-86-9		0.055	mg	363329	83
Inductor L211 (LQP03TN2N7B02)				supplier	Insulation Layer/Glass	Aluminium Oxide	1344-28-1		0.044	mg	290663	66
Resistor R3 (RL0402JR-070R1L)	M-011 Other inorganic materials		0.63013	mg	supplier	Ceramics / Glass	Al2O3	1344-28-1	0.508	mg	806183	770
Resistor R3 (RL0402JR-070R1L)				supplier	Ceramics / Glass	SiO2	14808-60-7		0.015	mg	24360	23
Resistor R3 (RL0402JR-070R1L)				supplier	Ceramics / Glass	CaO	1305-78-8		0.003	mg	5047	5
Resistor R3 (RL0402JR-070R1L)				supplier	Ceramics / Glass	MgO	1309-48-4		0.003	mg	4205	4
Resistor R3 (RL0402JR-070R1L)				supplier	Precious metals	Ag	7440-22-4		0.013	mg	19869	19
Resistor R3 (RL0402JR-070R1L)				supplier	Precious metals	Pd	7440-05-3		0.000	mg	222	0
Resistor R3 (RL0402JR-070R1L)				SVHC	Precious metals	Glass frit (contain Pb)	65997-18-4		0.001	mg	1333	1
Resistor R3 (RL0402JR-070R1L)				supplier	Ceramics / Glass	Ag	7440-22-4		0.003	mg	4444	4
Resistor R3 (RL0402JR-070R1L)				supplier	Ceramics / Glass	Pd	7440-05-3		0.001	mg	1777	2
Resistor R3 (RL0402JR-070R1L)				JIG-R & California 65	Ceramics / Glass	Glass frit (contain Pb)	65997-18-4		0.000	mg	444	0
Resistor R3 (RL0402JR-070R1L)				supplier	Epoxy	Epoxy resin	25068-38-6		0.011	mg	17600	17
Resistor R3 (RL0402JR-070R1L)				supplier	end terminal	Nickel	7440-02-0		0.000	mg	317	0
Resistor R3 (RL0402JR-070R1L)				supplier	end terminal	Chromium	7440-47-3		0.000	mg	79	0
Resistor R3 (RL0402JR-070R1L)				supplier	end terminal	Sn	7440-31-5		0.033	mg	52132	50



Resistor R3 (RL0402JR-070R1L)				supplier	Ni Plating	Nickel	7440-02-0		0.033	mg	52973	51
Resistor R3 (RL0402JR-070R1L)				supplier	Primary Glass	Glass (Pb free)(contains Bismuth, Silicon &Boro	65997-17-3		0.006	mg	9014	9
SHIELD 0ADL023J	Copper & its alloys	366.95	mg	Supplier	Nickel silver	Cu	7440-50-8		165.876	mg	460372	255960
SHIELD 0ADL023J				Supplier	Nickel silver	Ni	7440-02-0		62.382	mg	170000	94517
SHIELD 0ADL023J				Supplier	Nickel silver	Zn	7440-66-6		69.427	mg	189200	105192
Crystal 1	M-011 Other inorganic materials	12.6733	mg	supplier	Cover	Silicon	7440-21-3		0.004	mg	316	6
Crystal 1				supplier	Cover	Manganese	7439-96-5		0.009	mg	710	14
Crystal 1				supplier	Cover	Carbon	1333-86-4		0.000	mg	32	1
Crystal 1				supplier	Cover	Cobalt (Co)	7440-48-4		0.319	mg	25171	483
Crystal 1				supplier	Cover	Iron (Fe)	7439-89-6		0.999	mg	78827	1514
Crystal 1				supplier	Cover	Nickel (Ni)	7440-02-0		0.679	mg	53577	1029
Crystal 1				supplier	Base	Aluminum Oxide	1344-28-1		5.890	mg	464757	8924
Crystal 1				supplier	Base	Chromium Oxide	1308-38-9		0.040	mg	3156	61
Crystal 1				supplier	Base	Silicon Dioxide	14808-60-7		0.290	mg	22883	439
Crystal 1				supplier	Base	Molybdenum	7439-98-7		0.280	mg	22094	424
Crystal 1				supplier	Base	Calcium Oxide	1305-78-8		0.040	mg	3156	61
Crystal 1				supplier	Base	Magnesium Oxide	1309-48-4		0.040	mg	3156	61
Crystal 1				supplier	Base	Iron (Fe)	7439-89-6		0.880	mg	69437	1333
Crystal 1				supplier	Base	Nickel (Ni)	7440-02-0		0.470	mg	37086	712
Crystal 1				supplier	Base	Cobalt (Co)	7440-48-4		0.270	mg	21305	409
Crystal 1				supplier	Base	Silver (Ag)	7440-22-4		0.350	mg	27617	530
Crystal 1				supplier	Base	Copper (Cu)	7440-50-8		0.060	mg	4734	91
Crystal 1				supplier	Base	Nickel (Ni)	7440-02-0		0.190	mg	14992	288
Crystal 1				supplier	Base	Cobalt (Co)	7440-48-4		0.060	mg	4734	91
Crystal 1				supplier	Base	Gold (Au)	7440-57-5		0.070	mg	5523	106
Crystal 1				supplier	Base	Tungsten	7440-33-7		1.500	mg	118359	2273
Crystal 1				supplier	Electro Conductive Adhesive	Silver	7440-22-4		0.233	mg	18377	353