

### CAR-02 0201

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	0.0979958	96%	
		Silicon Dioxide	14808-60-7	0.0020416	2%	
		Magnesium Oxide	1309-48-4	0.0020416	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.0026337	94.60%	
		Palladium	7440-05-3	0.0000376	1.35%	
		Glass	65997-18-4	0.0001128	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.0013635	86.96%	
		Glass	65997-18-4	0.0002045	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.0000128	80%	
		Chromium	7440-47-3	0.0000032	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.000038	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.00019	25.00%	
		Palladium	7440-05-3	0.000076	10.00%	
		Glass	65997-18-4	0.000456	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.0004791	67%	
		Ethyl Cellulose	9004-57-3	0.0000215	3%	
		Turpentine Alcoholize	10482-56-1	0.0002145	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.0006634	48%	
		Color Pigment	68186-91-4	0.0001842	13.33%	
		Silicon Dioxide	60676-86-0	0.0004606	33.33%	
		Talc	14807-96-6	0.0000738	5.34%	
8	Termination Between	Nickel	7440-02-0	0.008422	100%	
9	Termination Outer	Tin	7440-31-5	0.008289	100%	
<b>TOTAL</b>				<b>0.126015</b>		

# MATERIAL DECLARATION

 **CAR-04 0402**

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	0.4142304	96%	
		Silicon Dioxide	14808-60-7	0.0086298	2%	
		Magnesium Oxide	1309-48-4	0.0086298	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.0111344	94.60%	
		Palladium	7440-05-3	0.0001589	1.35%	
		Glass	65997-18-4	0.0004767	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.0057654	86.96%	
		Glass	65997-18-4	0.0008646	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.000056	80%	
		Chromium	7440-47-3	0.000014	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.00016	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.0008	25.00%	
		Palladium	7440-05-3	0.00032	10.00%	
		Glass	65997-18-4	0.00192	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.0020234	67%	
		Ethyl Cellulose	9004-57-3	0.0000906	3%	
		Turpentine Alcoholize	10482-56-1	0.000906	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.0028032	48%	
		Color Pigment	68186-91-4	0.0007785	13.33%	
		Silicon Dioxide	60676-86-0	0.0019465	33.33%	
		Talc	14807-96-6	0.0003119	5.34%	
8	Termination Between	Nickel	7440-02-0	0.0356	100%	
9	Termination Outer	Tin	7440-31-5	0.03504	100%	
<b>TOTAL</b>				<b>0.53266</b>		




### CAR-06 0603

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	1.715136	96%	
		Silicon Dioxide	14808-60-7	0.035732	2%	
		Magnesium Oxide	1309-48-4	0.035732	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.0317856	94.60%	
		Palladium	7440-05-3	0.0004536	1.35%	
		Glass	65997-18-4	0.0013608	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.01931	86.96%	
		Glass	65997-18-4	0.00289	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.01744	80%	
		Chromium	7440-47-3	0.00436	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.0005	5.00%	RoHS Exemption No.: 7(c)-1 (Pb in glass of electronic components)
		Silver	7440-22-4	0.0025	25.00%	
		Palladium	7440-05-3	0.001	10.00%	
		Glass	65997-18-4	0.005699	56.99%	
		Lead Oxide	1317-36-8	0.000301	3.01%	
6	Protective Coating (G1)	Glass	65997-18-4	0.01273	67%	
		Ethyl Cellulose	9004-57-3	0.00057	3%	
		Turpentine Alcoholize	10482-56-1	0.0057	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.016128	48%	
		Color Pigment	68186-91-4	0.0044789	13.33%	
		Silicon Dioxide	60676-86-0	0.0111989	33.33%	
		Talc	14807-96-6	0.0017942	5.34%	
8	Termination Between	Nickel	7440-02-0	0.0748	100%	
9	Termination Outer	Tin	7440-31-5	0.0736	100%	
10	Marking	Epoxy Resin	25085-99-8	0.0011052	52.63%	
		Barium Sulfate	7727-43-7	0.0003316	15.79%	
		Titanium Dioxide	13463-67-7	0.0006632	31.58%	
<b>TOTAL</b>				<b>2.0773</b>		

# MATERIAL DECLARATION

CAR SERIES

 **CAR-10 0805**

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	4.0124544	96%	
		Silicon Dioxide	14808-60-7	0.0835928	2%	
		Magnesium Oxide	1309-48-4	0.0835928	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.0558433	94.60%	
		Palladium	7440-05-3	0.0007969	1.35%	
		Glass	65997-18-4	0.0023908	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.033897	86.96%	
		Glass	65997-18-4	0.005083	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.02064	80%	
		Chromium	7440-47-3	0.00516	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.00135	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.00675	25.00%	
		Palladium	7440-05-3	0.0027	10.00%	
		Glass	65997-18-4	0.0162	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.0263109	67%	
		Ethyl Cellulose	9004-57-3	0.0011781	3%	
		Turpentine Alcoholize	10482-56-1	0.011781	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.0334176	48%	
		Color Pigment	68186-91-4	0.0092803	13.33%	
		Silicon Dioxide	60676-86-0	0.0232043	33.33%	
		Talc	14807-96-6	0.0037177	5.34%	
8	Termination Between	Nickel	7440-02-0	0.15019	100%	
9	Termination Outer	Tin	7440-31-5	0.14783	100%	
10	Marking	Epoxy Resin	25085-99-8	0.0022947	52.63%	
		Barium Sulfate	7727-43-7	0.0006884	15.79%	
		Titanium Dioxide	13463-67-7	0.0013769	31.58%	
<b>TOTAL</b>				<b>4.741721</b>		



### CAR-12 1206


NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	7.379366	96%	
		Silicon Dioxide	14808-60-7	0.153737	2%	
		Magnesium Oxide	1309-48-4	0.153737	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.099027	94.60%	
		Palladium	7440-05-3	0.001413	1.35%	
		Glass	65997-18-4	0.00424	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.060109	86.96%	
		Glass	65997-18-4	0.009014	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.018	80%	
		Chromium	7440-47-3	0.0045	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.0026	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.013	25.00%	
		Palladium	7440-05-3	0.0052	10.00%	
		Glass	65997-18-4	0.0312	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.031174	67%	
		Ethyl Cellulose	9004-57-3	0.001396	3%	
		Turpentine Alcoholize	10482-56-1	0.013958	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.039601	48%	
		Color Pigment	68186-91-4	0.010997	13.33%	
		Silicon Dioxide	60676-86-0	0.027498	33.33%	
		Talc	14807-96-6	0.004406	5.34%	
8	Termination Between	Nickel	7440-02-0	0.20003	100%	
9	Termination Outer	Tin	7440-31-5	0.19688	100%	
10	Marking	Epoxy Resin	25085-99-8	0.002716	52.63%	
		Barium Sulfate	7727-43-7	0.000815	15.79%	
		Titanium Dioxide	13463-67-7	0.00163	31.58%	
<b>TOTAL</b>				<b>8.46624</b>		

# MATERIAL DECLARATION

 **CAR-14 1210**


NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	14.0878464	96%	
		Silicon Dioxide	14808-60-7	0.2934968	2%	
		Magnesium Oxide	1309-48-4	0.2934968	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.156686	94.60%	
		Palladium	7440-05-3	0.002236	1.35%	
		Glass	65997-18-4	0.006708	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.0951082	86.96%	
		Glass	65997-18-4	0.0142619	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.0888	80%	
		Chromium	7440-47-3	0.0222	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.0031	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.0155	25.00%	
		Palladium	7440-05-3	0.0062	10.00%	
		Glass	65997-18-4	0.0372	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.0678911	67%	
		Ethyl Cellulose	9004-57-3	0.0030399	3%	
		Turpentine Alcoholize	10482-56-1	0.030399	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.0862416	48%	
		Color Pigment	68186-91-4	0.02395	13.33%	
		Silicon Dioxide	60676-86-0	0.059884	33.33%	
		Talc	14807-96-6	0.0095944	5.34%	
8	Termination Between	Nickel	7440-02-0	0.35867	100%	
9	Termination Outer	Tin	7440-31-5	0.353028	100%	
10	Marking	Epoxy Resin	25085-99-8	0.0027157	52.63%	
		Barium Sulfate	7727-43-7	0.0008148	15.79%	
		Titanium Dioxide	13463-67-7	0.0016295	31.58%	
<b>TOTAL</b>				<b>16.120698</b>		



 CAR-20 2010

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	21.8088	96%	
		Silicon Dioxide	14808-60-7	0.45435	2%	
		Magnesium Oxide	1309-48-4	0.45435	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.161247	94.60%	
		Palladium	7440-05-3	0.002301	1.35%	
		Glass	65997-18-4	0.006903	4.05%	
3	Termination Inner (C2)	Silver	7440-22-4	0.097873	86.96%	
		Glass	65997-18-4	0.014677	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.08144	80%	
		Chromium	7440-47-3	0.02036	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.008841	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.044203	25.00%	
		Palladium	7440-05-3	0.017681	10.00%	
		Glass	65997-18-4	0.106086	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.186722	67%	
		Ethyl Cellulose	9004-57-3	0.008361	3%	
		Turpentine Alcoholize	10482-56-1	0.083607	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.237197	48%	
		Color Pigment	68186-91-4	0.065872	13.33%	
		Silicon Dioxide	60676-86-0	0.164704	33.33%	
		Talc	14807-96-6	0.026388	5.34%	
8	Termination Between	Nickel	7440-02-0	0.367125	100%	
9	Termination Outer	Tin	7440-31-5	0.36135	100%	
10	Marking	Epoxy Resin	25085-99-8	0.012894	52.63%	
		Barium Sulfate	7727-43-7	0.003869	15.79%	
		Titanium Dioxide	13463-67-7	0.007737	31.58%	
<b>TOTAL</b>				<b>24.80494</b>		

# MATERIAL DECLARATION

 **CAR-25 2512**

NO.	BREAKDOWN OF COMPONENT	MATERIAL NAME	CAS NO.	SUBSTANCE MASS (mg/pc)	PERCENTAGE OF HOMOGENEOUS MATERIAL	REMARK
1	Substrate	Aluminum Trioxide	1344-28-1	39.2129376	96%	
		Silicon Dioxide	14808-60-7	0.8169362	2%	
		Magnesium Oxide	1309-48-4	0.8169362	2%	
2	Termination Inner (C1)	Silver	7440-22-4	0.2239219	94.60%	
		Palladium	7440-05-3	0.0031955	1.4%	
		Glass	65997-18-4	0.0095865	4.1%	
3	Termination Inner (C2)	Silver	7440-22-4	0.1359185	86.96%	
		Glass	65997-18-4	0.0203815	13.04%	
4	Termination Inner (C3)	Nickel	7440-02-0	0.10712	80%	
		Chromium	7440-47-3	0.02678	20%	
5	Resistive Element	Ruthenium Oxide	12036-10-1	0.015625	5.00%	RoHS Exemption No.: 7(c)-I (Pb in glass of electronic components)
		Silver	7440-22-4	0.078125	25.00%	
		Palladium	7440-05-3	0.03125	10.00%	
		Glass	65997-18-4	0.1875	60.00%	
6	Protective Coating (G1)	Glass	65997-18-4	0.4206291	67%	
		Ethyl Cellulose	9004-57-3	0.0188341	3%	
		Turpentine Alcoholize	10482-56-1	0.1883414	30%	
7	Protective Coating (G2)	Resin	25068-38-6	0.534336	48%	
		Color Pigment	68186-91-4	0.1483896	13.33%	
		Silicon Dioxide	60676-86-0	0.3710296	33.33%	
		Talc	14807-96-6	0.0594449	5.34%	
8	Termination Between	Nickel	7440-02-0	0.46992	100%	
9	Termination Outer	Tin	7440-31-5	0.462528	100%	
10	Marking	Epoxy Resin	25085-99-8	0.0290465	52.63%	
		Barium Sulfate	7727-43-7	0.0087145	15.79%	
		Titanium Dioxide	13463-67-7	0.017429	31.58%	
<b>TOTAL</b>				<b>44.414857</b>		

