

ALPS ALPINE CO., LTD.

Engineering Administration Department

Hironobu Watanabe

SVHC use product list

Limit : 0.1% · wt

No.	Description	Our P/N	Product Weight (g)	The location/ application of SVHC Used	Homogeneous material Weight(mg)	The name of SVHC	CAS No.	Weight of SVHC (mg)	Homogeneous material /SVHC (%)	Remarks
1	Encoder	EC1110120005	5.218	Shaft/ Free machining	1915	Lead	7439-92-1	57.45	3.00%	
2		EC11E0B2LB01	6.45	Shaft/ Free machining	1280	Lead	7439-92-1	38.4	3.00%	
3		EC11EBB24C01	4.3	Shaft/ Free machining	670	Lead	7439-92-1	20.1	3.00%	
4		EC11EBB24C03	5.3	Shaft/ Free machining	1140	Lead	7439-92-1	34.2	3.00%	
5	Magnetic Sensor	HGPRDT001A	0.0128	Die Bond	0.03	N-Methyl-2- pyrrolidone	872-50-4	0.0045	15.00%	
6		HSHCAA106E	2	Chip Resistor/ Inner electrode(Top)	0.00726	Lead(II) oxide	1317-36-8	0.00024	3.31%	(2 pc)
				Chip Resistor/ Inner electrode(Bottom)	0.029366	Lead(II) oxide	1317-36-8	0.000102	0.35%	(2 pc)
				Chip Resistor/ Resistive	0.013768	Lead(II) oxide	1317-36-8	0.005	36.32%	(2 pc)
Chip Resistor/ Under- coat	0.019296			Lead(II) oxide	1317-36-8	0.0116	60.12%	(2 pc)		
7	Printer	PTMBL1B02A	41	Thermal Head / Thermistor	0.85	Lead(II) oxide	1317-36-8	0.0085	1.00%	
				Thermal Head / Printed Board	2720.58	Lead(II) oxide	1317-36-8	10	0.37%	
				HEAD SHAFT	1511	Lead	7439-92-1	3.9	0.26%	
				LF-C POST	62	Lead	7439-92-1	0.16	0.26%	
8	Printer	PTMBL1B02BC	41	Thermal Head / Printed Board	1402.28	Lead(II) oxide	1317-36-8	4.3	0.31%	
				HEAD SHAFT	1573.1	Lead	7439-92-1	3.9	0.25%	
				LF-S POST	63.925	Lead	7439-92-1	0.16	0.25%	
9	Sensor	RDC401D08A	2.3	Screw/ Free machining	570	Lead	7439-92-1	17.1	3.00%	
10		RDC401D10A	1.9	Screw/ Free machining	570	Lead	7439-92-1	17.1	3.00%	

11	Potentiometer	RK097221004C	6.68	INNER SHAFT/ Free machining	1605	Lead	7439-92-1	48.15	3.00%	
				OUTER SHAFT/ Free machining	1178	Lead	7439-92-1	35.34	3.00%	
12		RK0972210057	10.281	INNER SHAFT/ Free machining	2762	Lead	7439-92-1	82.86	3.00%	
				OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
13		RK097221005C	6.68	INNER SHAFT/ Free machining	1605	Lead	7439-92-1	48.15	3.00%	
				OUTER SHAFT/ Free machining	1178	Lead	7439-92-1	35.34	3.00%	
14		RK097221005H	6.68	INNER SHAFT/ Free machining	1605	Lead	7439-92-1	48.15	3.00%	
				OUTER SHAFT/ Free machining	1178	Lead	7439-92-1	35.34	3.00%	
15		RK0972210C1T	10.277	INNER SHAFT/ Free machining	2490	Lead	7439-92-1	74.7	3.00%	
				OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
16		RK0972210C1U	12.074	INNER SHAFT/ Free machining	4287	Lead	7439-92-1	128.61	3.00%	
				OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
17		RK0972213001	11.625	SPACER/ Free machining	91	Lead	7439-92-1	2.73	3.00%	
				INNER SHAFT/ Free machining	3123	Lead	7439-92-1	93.69	3.00%	
				OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
18		RK0972213002	12.938	SPACER/ Free machining	91	Lead	7439-92-1	2.73	3.00%	
				INNER SHAFT/ Free machining	3296	Lead	7439-92-1	98.88	3.00%	
				OUTER SHAFT/ Free machining	3080	Lead	7439-92-1	92.4	3.00%	
19		RK0972213004	13.038	SPACER/ Free machining	91	Lead	7439-92-1	2.73	3.00%	
				INNER SHAFT/ Free machining	3296	Lead	7439-92-1	98.88	3.00%	
				OUTER SHAFT/ Free machining	3080	Lead	7439-92-1	92.4	3.00%	
20		RK0972310C01	10.713	INNER SHAFT/ Free machining	3040	Lead	7439-92-1	91.2	3.00%	
				OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	

21	RK0972310C02	10.435	INNER SHAFT/ Free machining	2762	Lead	7439-92-1	82.86	3.00%	
			OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
22	RK0972310C06	11.883	INNER SHAFT/ Free machining	3070	Lead	7439-92-1	92.1	3.00%	
			OUTER SHAFT/ Free machining	3080	Lead	7439-92-1	92.4	3.00%	
23	RK0972310C0N	11.342	INNER SHAFT/ Free machining	3375	Lead	7439-92-1	101.25	3.00%	
			OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
24	RK0972310C0P	12.332	INNER SHAFT/ Free machining	4365	Lead	7439-92-1	130.95	3.00%	
			OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
25	RK09723B000A	11.111	INNER SHAFT/ Free machining	3040	Lead	7439-92-1	91.2	3.00%	
			OUTER SHAFT/ Free machining	1940	Lead	7439-92-1	58.2	3.00%	
26	RK0972420C05	7.035	INNER SHAFT/ Free machining	1700	Lead	7439-92-1	51	3.00%	
			OUTER SHAFT/ Free machining	880	Lead	7439-92-1	26.4	3.00%	
27	RK0972510C03	13.536	INNER SHAFT/ Free machining	3691	Lead	7439-92-1	110.73	3.00%	
			OUTER SHAFT/ Free machining	3080	Lead	7439-92-1	92.4	3.00%	
28	RK27112MC009	88	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
29	RK27112MC00X	90.28717	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
30	RK27112MC01E	87	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
31	RK27112MC01L	89.3	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
32	RK27112MC01P	88.6	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
33	RK27112MC030	83.6	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
34	RK27112MC035	92.28217	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
35	RK27112MCA07	89.3	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
36	RK27112MCA0R	89	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	

37		RK27112MCA13	86.4	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
38		RK27112MCA1E	91.67817	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
39		RK27112MCA1J	87.00417	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
40		RK27114MC00D	102.3122	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
41		RK27114MC036	102.6732	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
42		RK27114MCA0M	104.6692	Post/ Free machining	1130	Lead	7439-92-1	33.9	3.00%	
43		RKJXK1210002	10.068	Post/ Free machining	436	Lead	7439-92-1	1.078	3.00%	
44		RKJXK122000D	10.015	Post/ Free machining	436	Lead	7439-92-1	1.078	3.00%	
45		RKJXK122400Y	9.534	Post/ Free machining	436	Lead	7439-92-1	1.078	3.00%	
46		RSA0K11V900C	156.2639	Post/ Free machining	361.5	Lead	7439-92-1	0.902	0.25%	
47		RSA0K11V900U	138	Shaft/ Free machining	360.951	Lead	7439-92-1	0.902	0.25%	
48		RSA0K11V901H	138	Shaft/ Free machining	360.951	Lead	7439-92-1	0.902	0.25%	
49		RSA0K11V901S	156.3404	Post/ Free machining	350	Lead	7439-92-1	0.814	0.23%	
50		RSA0K11V901Y	138	Shaft/ Free machining	360.951	Lead	7439-92-1	0.902	0.25%	
51		RSA0K12V9016	155.9134	Post/ Free machining	350	Lead	7439-92-1	0.814	0.23%	
52	Stick Controller	RKJXL100401V	2.8	Shaft/ Free machining	380	Lead	7439-92-1	11.4	3.00%	
53		RKJXM1015001	1.47	Shaft/ Free machining	420	Lead	7439-92-1	12.6	3.00%	
54		RKJXM1015004	1.462	Shaft/ Free machining	420	Lead	7439-92-1	12.6	3.00%	
55		RKJXM2E13001	3.672	Shaft/ Free machining	420	Lead	7439-92-1	12.6	3.00%	
56		RKJXM2E13004	3.672	Shaft/ Free machining	420	Lead	7439-92-1	12.6	3.00%	
57		RKJXT1F42001	3.7	Shaft/ Free machining	591	Lead	7439-92-1	17.73	3.00%	
58		RKJXW1014002	32.4	Shaft/ Free machining	4730	Lead	7439-92-1	141.9	3.00%	
59	Switch	SPGA110100	11	Core/ Free machining	674.449	Lead	7439-92-1	1.888	0.28%	

60	SRBE110301	0.33	Post/ Free machining	16	Lead	7439-92-1	0.48	3.00%	
61	SRBE210200	0.49306	Post/ Free machining	16	Lead	7439-92-1	0.48	3.00%	Σ 493.06
62	SRRM254700	15.16	Bushing/ Free machining	2580	Lead	7439-92-1	77.4	3.00%	
63	SRRM262400	16.607	Bush/ Free machining	3000	Lead	7439-92-1	90	3.00%	Σ 16607
64	SRRM342800	16.964	Bush/ Free machining	3000	Lead	7439-92-1	90	3.00%	
65	SRRM433700	15.61	Bushing/ Free machining	2580	Lead	7439-92-1	77.4	3.00%	