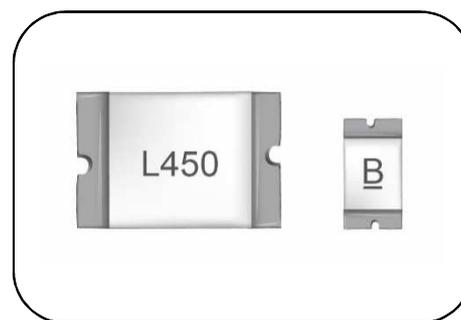


SMD Low Resistance Type

■ Features

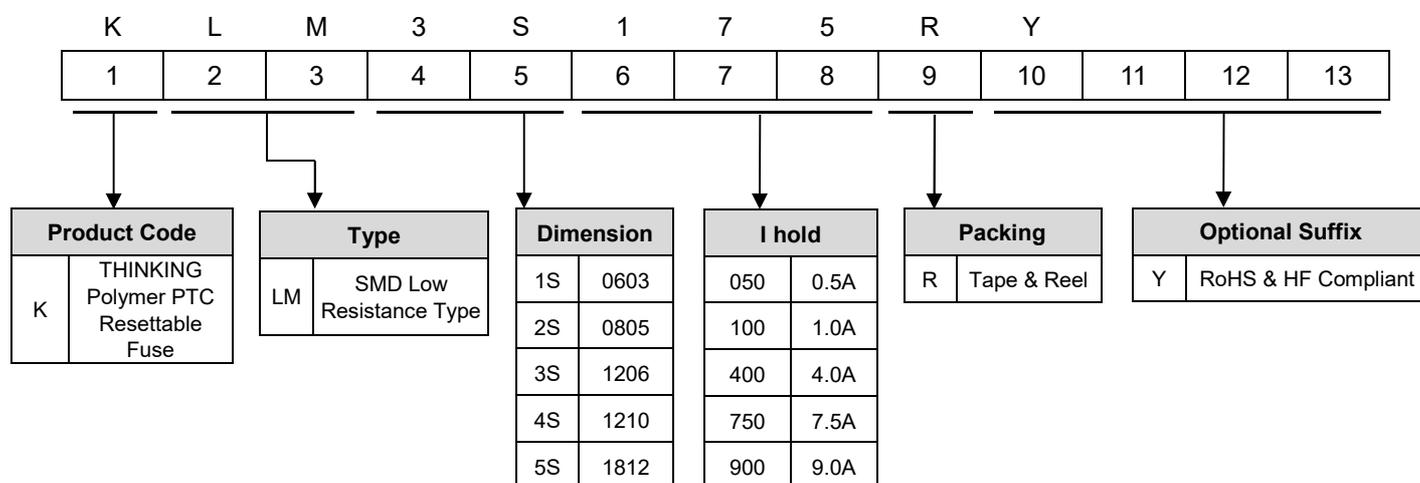
1. RoHS & Halogen-Free (HF) compliant
2. EIA size: 0603, 0805, 1206, 1210, 1812
3. Hold current ratings from 0.5A to 9.0A
4. Vmax: 6V-12V
5. Small footprint
6. Ultra low resistance
7. Fast time to trip
8. Operating & storage temperature range: -40°C ~+85°C
9. Agency Approval: UL / cUL / TUV



■ Recommended Applications

1. USB, HDMI, IEEE 1394 interface
2. PC, Motherboard, NB, Tablet
3. Protection for lithium ion battery of cell phone
4. Digital cameras
5. Telecommunication
6. Consumer device

■ Part Number Code

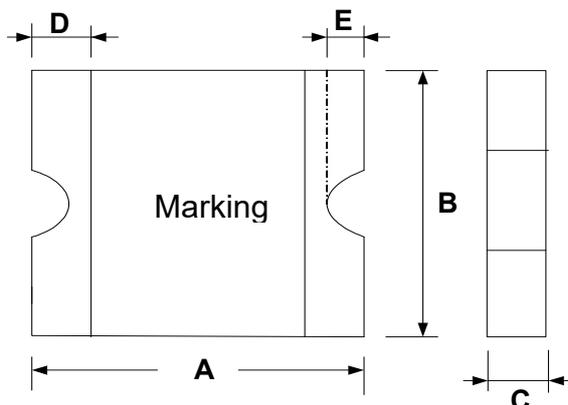


PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ Structure & Dimensions



(Unit: mm)

Part No.		A		B		C		D		E	
		(Min.)	(Max.)								
KLM1S050	KLM1S050-8	1.40	1.80	0.60	1.00	0.30	0.65	0.13	0.50	0.05	0.40
KLM1S075	KLM1S075-8					0.30	0.65				
KLM1S100	KLM1S100-8					0.30	0.65				
KLM1S150	KLM1S150-8					0.50	0.80				
KLM1S175	KLM1S175-8					0.50	0.80				
KLM1S200	-					0.50	0.80				
KLM2S075	KLM2S075-12	2.00	2.20	1.20	1.50	0.40	0.70	0.15	0.55	0.05	0.45
KLM2S110	KLM2S110-12					0.40	0.70				
KLM2S150	KLM2S150-12					0.50	0.88				
KLM2S175	KLM2S175-12					0.50	0.88				
KLM2S200	-					0.50	0.88				
KLM2S260	-					0.50	0.88				
KLM2S300	-					0.50	1.20				
KLM2S350	-					0.60	1.20				
KLM2S400	-					0.60	1.20				
KLM3S075	KLM3S075-12					3.00	3.50				
KLM3S110	KLM3S110-12	0.40	0.70								
KLM3S150	KLM3S150-12	0.40	0.70								
KLM3S175	-	0.60	1.20								
KLM3S200	KLM3S200-12	0.60	1.20								
KLM3S260	KLM3S260-12	0.60	1.20								
KLM3S300	KLM3S300-12	0.60	1.20								
KLM3S350	KLM3S350-12	0.60	1.20								
KLM3S380	KLM3S380-12	0.60	1.20								

PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ Structure & Dimensions

(Unit: mm)

Part No.		A		B		C		D		E									
		(Min.)	(Max.)																
KLM3S400	KLM3S400-12	3.00	3.50	1.50	1.80	0.60	1.20	0.13	0.75	0.08	0.45								
KLM3S450	KLM3S450-12					0.60	1.20												
KLM3S500	KLM3S500-12					0.60	1.20												
KLM3S550	-					0.60	1.20												
KLM3S600	-					0.60	1.20												
KLM4S175	KLM4S175-12	3.00	3.43	2.35	2.80	0.40	0.70	0.13	0.75	0.08	0.50								
KLM4S200	KLM4S200-12					0.40	0.70												
KLM4S260	KLM4S260-12					0.40	0.70												
KLM4S300	KLM4S300-12					0.60	1.20												
KLM4S350	KLM4S350-12					0.60	1.20												
KLM4S380	KLM4S380-12					0.60	1.20												
KLM4S400	-					0.60	1.20												
KLM4S450	-					0.60	1.20												
KLM4S500	-					0.60	1.20												
KLM4S550	-					0.60	1.20												
KLM4S600	-					0.60	1.20												
KLM4S650	-					0.60	1.20												
KLM4S700	-					0.60	1.20												
KLM4S750	-					0.80	1.40												
KLM4S800	-					0.80	1.50												
KLM4S850	-					0.80	1.50												
KLM4S900	-					0.80	1.50												
KLM5S190	KLM5S190-12					4.37	4.73					3.07	3.41	0.40	0.70	0.20	1.20	0.15	0.65
KLM5S260	-													0.40	0.70				
KLM5S270	KLM5S270-12	0.40	0.70																
KLM5S300	KLM5S300-12	0.40	0.70																
KLM5S350	KLM5S350-12	0.40	0.70																
KLM5S370	KLM5S370-12	0.40	0.70																
KLM5S400	KLM5S400-12	0.40	0.70																
KLM5S450	KLM5S450-12	0.60	1.20																
KLM5S500	KLM5S500-12	0.60	1.20																
KLM5S550	-	0.60	1.20																
KLM5S600	-	0.60	1.20																
KLM5S650	-	0.60	1.20																
KLM5S700	-	0.60	1.20																
KLM5S750	-	0.80	1.40																

PPTC- Polymer PTC Resettable Fuse: KLM Series



SMD Low Resistance Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax. (V _{dc})	Imax. (A)	Ihold (A)	Itrip (A)	Pd (Max.) (W)	Maximum Time to Trip		Resistance		Safety Approvals	
							Current (A)	Time (Sec.)	Initial Ri	Post Trip R1	UL/cUL	TUV
									Min.(Ω)	Max.(Ω)		
KLM1S050	a	6	50	0.50	1.00	0.6	8	0.1	0.070	0.350	√	√
KLM1S050-8	a	8	50	0.50	1.00	0.6	8	0.1	0.070	0.350	√	-
KLM1S075	b	6	50	0.75	1.50	0.6	8	0.2	0.050	0.250	√	√
KLM1S075-8	b	8	50	0.75	1.50	0.6	8	0.2	0.050	0.250	√	-
KLM1S100	c	6	50	1.00	1.80	0.6	8	0.3	0.040	0.120	√	√
KLM1S100-8	c	8	50	1.00	1.80	0.6	8	0.3	0.040	0.120	√	-
KLM1S150	d	6	50	1.50	3.00	1.0	8	0.5	0.007	0.080	√	√
KLM1S150-8	d	8	50	1.50	3.00	1.0	8	0.5	0.007	0.080	√	-
KLM1S175	e	6	50	1.75	3.50	1.0	8	0.6	0.005	0.060	√	√
KLM1S175-8	e	8	50	1.75	3.50	1.0	8	0.6	0.005	0.060	√	-
KLM1S200	f	6	50	2.00	4.00	1.0	8	1.0	0.003	0.045	√	√
KLM2S075	<u>A</u>	6	50	0.75	1.50	0.6	8	0.2	0.040	0.160	√	√
KLM2S075-12	<u>A</u>	12	50	0.75	1.50	1.2	8	0.2	0.040	0.160	√	√
KLM2S110	<u>B</u>	6	50	1.10	1.80	0.6	8	0.3	0.030	0.130	√	√
KLM2S110-12	<u>B</u>	12	50	1.10	1.80	1.2	8	0.3	0.030	0.130	√	√
KLM2S150	<u>C</u>	6	50	1.50	3.00	0.6	8	0.5	0.015	0.065	√	√
KLM2S150-12	<u>C</u>	12	50	1.50	3.00	1.2	8	0.5	0.015	0.065	√	√
KLM2S175	<u>D</u>	6	50	1.75	3.50	0.6	8	0.6	0.005	0.055	√	√
KLM2S175-12	<u>D</u>	12	50	1.75	3.50	1.2	8	0.6	0.005	0.055	√	√
KLM2S200	E	6	50	2.00	4.00	1.0	8	1.0	0.005	0.045	√	√
KLM2S260	F	6	50	2.60	5.00	1.0	8	4.0	0.003	0.035	√	√
KLM2S300	K	6	50	3.00	6.00	1.0	8	5.0	0.003	0.030	√	√
KLM2S350	L	6	50	3.50	7.00	1.2	8	6.0	0.002	0.020	√	√
KLM2S400	N	6	50	4.00	9.00	1.2	20	2.0	0.001	0.016	√	√
KLM3S075	La	6	50	0.75	1.50	0.8	8	0.3	0.017	0.180	√	√
KLM3S075-12	La	12	50	0.75	1.50	1.2	8	0.3	0.017	0.180	√	√
KLM3S110	Lb	6	50	1.10	2.20	0.8	8	0.3	0.015	0.130	√	√
KLM3S110-12	Lb	12	50	1.10	2.20	1.2	8	0.3	0.015	0.130	√	√
KLM3S150	Lc	6	50	1.50	3.00	0.8	8	0.3	0.010	0.080	√	√
KLM3S150-12	Lc	12	50	1.50	3.00	1.2	8	0.3	0.010	0.080	√	√
KLM3S175	L3	6	50	1.75	3.50	0.8	8	0.4	0.005	0.045	√	√
KLM3S200	L7	6	50	2.00	4.00	0.8	8	0.5	0.005	0.040	√	√
KLM3S200-12	L7	12	50	2.00	4.00	1.2	8	0.5	0.005	0.040	√	√

Note: UL&cUL File No: E138827 / TUV File No:R50311748

PPTC- Polymer PTC Resettable Fuse: KLM Series



SMD Low Resistance Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	Imax.	Ihold	Itrip	Pd (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
							Current (A)	Time (Sec.)	Initial Ri	Post Trip R1	UL/cUL	TUV
		(V _{dc})	(A)	(A)	(A)	(W)			Min.(Ω)	Max.(Ω)		
KLM3S260	L8	6	50	2.60	5.00	0.8	8.0	4.0	0.003	0.030	√	√
KLM3S260-12	L8	12	50	2.60	5.00	1.2	8.0	4.0	0.003	0.030	√	√
KLM3S300	L9	6	100	3.00	6.00	0.8	8.0	4.0	0.003	0.026	√	√
KLM3S300-12	L9	12	50	3.00	6.00	1.5	8.0	4.0	0.003	0.026	√	√
KLM3S350	L1	6	50	3.50	7.00	0.8	8.0	5.0	0.003	0.018	√	√
KLM3S350-12	L1	12	50	3.50	7.00	1.5	8.0	5.0	0.003	0.018	√	-
KLM3S380	L2	6	50	3.80	8.00	0.8	8.0	5.0	0.002	0.014	√	√
KLM3S380-12	L2	12	50	3.80	8.00	1.5	8.0	5.0	0.002	0.014	√	-
KLM3S400	L5	6	50	4.00	8.00	0.8	20.0	2.0	0.001	0.014	√	√
KLM3S400-12	L5	12	50	4.00	8.00	1.5	20.0	2.0	0.001	0.014	√	-
KLM3S450	L6	6	50	4.50	9.00	0.8	22.0	2.0	0.001	0.014	√	√
KLM3S450-12	L6	12	50	4.50	9.00	1.5	22.0	2.0	0.001	0.014	√	-
KLM3S500	Le	6	50	5.00	10.00	0.8	25.0	2.0	0.001	0.013	√	√
KLM3S500-12	Le	12	50	5.00	10.00	1.5	25.0	2.0	0.001	0.013	√	-
KLM3S550	Lf	6	50	5.50	11.00	0.8	27.5	2.0	0.001	0.013	√	√
KLM3S600	Lg	6	50	6.00	12.00	0.8	30.0	2.0	0.001	0.012	√	√
KLM4S175	LA	6	50	1.75	3.50	0.8	8.0	2.5	0.006	0.040	√	√
KLM4S175-12	LA	12	50	1.75	3.50	1.2	8.0	2.5	0.006	0.040	√	√
KLM4S200	LB	6	50	2.00	4.00	0.8	8.0	3.0	0.005	0.024	√	√
KLM4S200-12	LB	12	50	2.00	4.00	1.2	8.0	3.0	0.005	0.024	√	√
KLM4S260	LE	6	50	2.60	5.00	0.8	8.0	4.0	0.003	0.020	√	√
KLM4S260-12	LE	12	50	2.60	5.00	1.2	8.0	4.0	0.003	0.020	√	√
KLM4S300	LG	6	50	3.00	6.00	0.8	15.0	2.0	0.003	0.020	√	√
KLM4S300-12	LG	12	50	3.00	6.00	1.5	15.0	2.0	0.003	0.020	√	√
KLM4S350	LN	6	50	3.50	7.00	0.8	17.5	2.0	0.003	0.018	√	√
KLM4S350-12	LN	12	50	3.50	7.00	1.5	17.5	2.0	0.003	0.018	√	√
KLM4S380	LK	6	50	3.80	8.00	0.8	19.0	2.0	0.003	0.016	√	√
KLM4S380-12	LK	12	50	3.80	8.00	1.5	19.0	2.0	0.003	0.016	√	√
KLM4S400	LM	6	50	4.00	8.00	0.8	20.0	2.0	0.002	0.014	√	√
KLM4S450	LP	6	50	4.50	9.00	0.8	22.5	2.0	0.002	0.014	√	√

Note: UL&cUL File No.: E138827 / TUV File No.: 50311748

PPTC- Polymer PTC Resettable Fuse: KLM Series



SMD Low Resistance Type

■ Electrical Characteristics at 23°C

Part No.	Marking	Vmax.	Imax.	Ihold	Itrip	Pd (Max.)	Maximum Time to Trip		Resistance		Safety Approvals	
							Current (A)	Time (Sec.)	Initial Ri	Post Trip R1	UL/cUL	TUV
		(V _{dc})	(A)	(A)	(A)	(W)			Min.(Ω)	Max.(Ω)		
KLM4S500	LQ	6	50	5.0	10	0.8	25.0	2.0	0.002	0.012	√	√
KLM4S550	LR	6	50	5.5	11	0.8	27.5	2.0	0.002	0.011	√	√
KLM4S600	LS	6	50	6.0	12	0.8	30.0	2.0	0.001	0.010	√	√
KLM4S650	LV	6	50	6.5	13	0.8	32.5	2.0	0.001	0.009	√	√
KLM4S700	LX	6	50	7.0	14	1.0	35.0	2.0	0.001	0.008	√	√
KLM4S750	LY	6	50	7.5	15	1.0	37.5	2.0	0.001	0.007	√	√
KLM4S800	LH	6	100	8.0	16	1.0	40.0	2.0	0.001	0.007	√	√
KLM4S850	LW	6	100	8.5	17	1.4	42.5	2.0	0.001	0.006	√	√
KLM4S900	LT	6	100	9.0	18	1.5	45.0	2.0	0.001	0.006	√	√
KLM5S190	L190	6	50	1.9	4.9	1.0	9.5	4.5	0.003	0.025	√	√
KLM5S190-12	L190	12	50	1.9	4.9	1.5	9.5	4.5	0.003	0.025	√	√
KLM5S260	L260	6	50	2.6	6.0	1.0	13.0	2.0	0.003	0.024	√	√
KLM5S270	L270	6	50	2.7	6.2	1.0	13.0	2.0	0.003	0.023	√	√
KLM5S270-12	L270	12	50	2.7	6.2	1.5	13.0	2.0	0.003	0.023	√	√
KLM5S300	L300	6	50	3.0	6.2	1.0	8.0	5.0	0.003	0.021	√	√
KLM5S300-12	L300	12	50	3.0	6.2	2.0	8.0	5.0	0.003	0.021	√	√
KLM5S350	L350	6	50	3.5	8.1	1.0	8.0	5.0	0.003	0.020	√	√
KLM5S350-12	L350	12	50	3.5	8.1	2.0	8.0	5.0	0.003	0.020	√	√
KLM5S370	L370	6	50	3.7	9.1	1.0	18.5	2.0	0.003	0.018	√	√
KLM5S370-12	L370	12	50	3.7	9.1	2.0	18.5	2.0	0.003	0.018	√	√
KLM5S400	L400	6	50	4.0	8.0	1.0	20.0	2.0	0.003	0.017	√	√
KLM5S400-12	L400	12	50	4.0	8.0	2.0	20.0	2.0	0.003	0.017	√	-
KLM5S450	L450	6	50	4.5	9.0	1.0	22.5	2.0	0.001	0.014	√	√
KLM5S450-12	L450	12	50	4.5	9.0	2.0	22.5	2.0	0.001	0.014	√	-
KLM5S500	L500	6	50	5.0	10.0	1.0	25.0	2.0	0.001	0.013	√	√
KLM5S500-12	L500	12	50	5.0	10.0	2.0	25.0	2.0	0.001	0.013	√	-
KLM5S550	L550	6	50	5.5	11.0	1.0	27.5	2.0	0.001	0.008	√	√
KLM5S600	L600	6	50	6.0	12.0	1.0	30.0	2.0	0.001	0.008	√	√
KLM5S650	L650	6	50	6.5	13.0	1.0	32.5	2.0	0.001	0.008	√	√
KLM5S700	L700	6	50	7.0	14.0	1.0	35.0	2.0	0.001	0.007	√	√
KLM5S750	L750	6	50	7.5	15.0	1.0	37.5	2.0	0.001	0.006	√	√

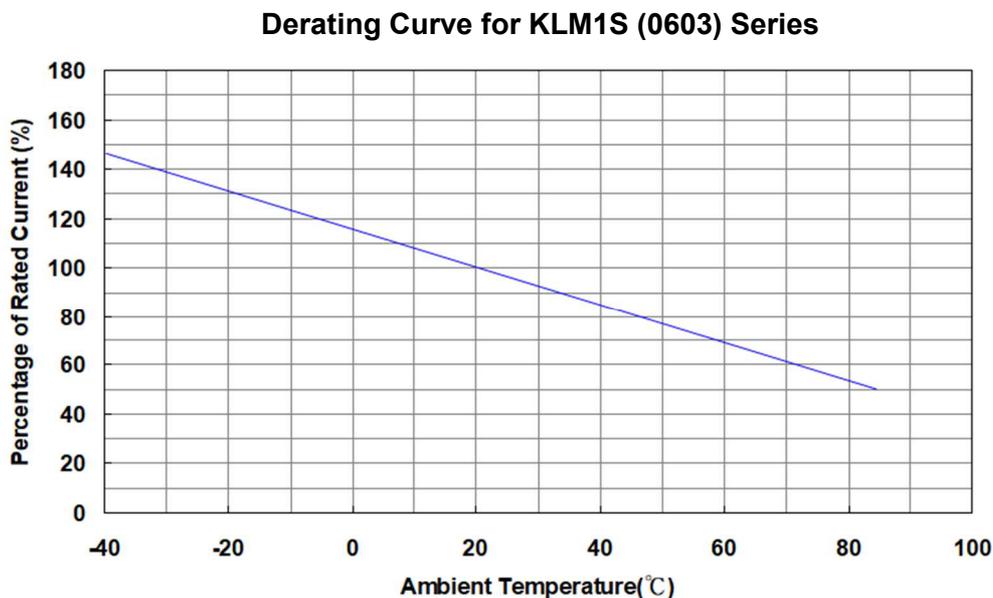
Note: UL&cUL File No.: E138827 / TUV File No.: R50311748

PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ KLM1S (0603) Series Ihold & Itrip Thermal Derating Curve



■ KLM1S (0603) Series Ihold Thermal Derating Chart

(Unit: A)

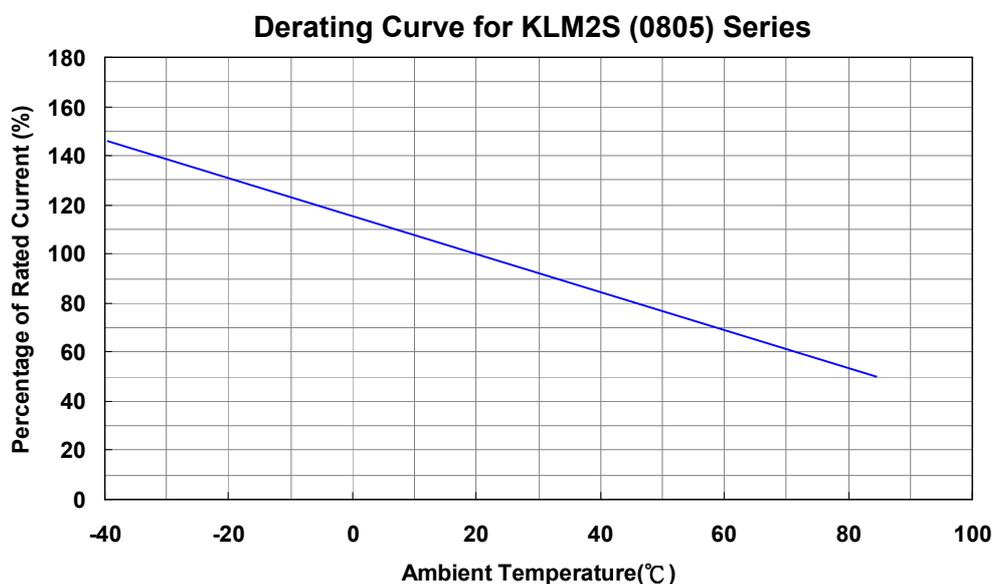
Part No.		Ambient Operation Temperature							
		-40°C	-20°C	0°C	23°C	40°C	60°C	70°C	85°C
KLM1S050	KLM1S050-8	0.81	0.71	0.62	0.50	0.42	0.30	0.24	0.16
KLM1S075	KLM1S075-8	1.24	1.07	0.94	0.75	0.62	0.47	0.37	0.21
KLM1S100	KLM1S100-8	1.36	1.25	1.10	1.00	0.83	0.65	0.52	0.33
KLM1S150	KLM1S150-8	2.37	2.07	1.80	1.50	1.25	0.93	0.74	0.50
KLM1S175	KLM1S175-8	2.57	2.23	1.99	1.75	1.49	1.24	1.00	0.80
KLM1S200	-	2.80	2.60	2.30	2.00	1.70	1.45	1.15	1.05

PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ KLM2S (0805) Series Ihold & Itrip Thermal Derating Curve



■ KLM2S (0805) Series Ihold Thermal Derating Chart

(Unit: A)

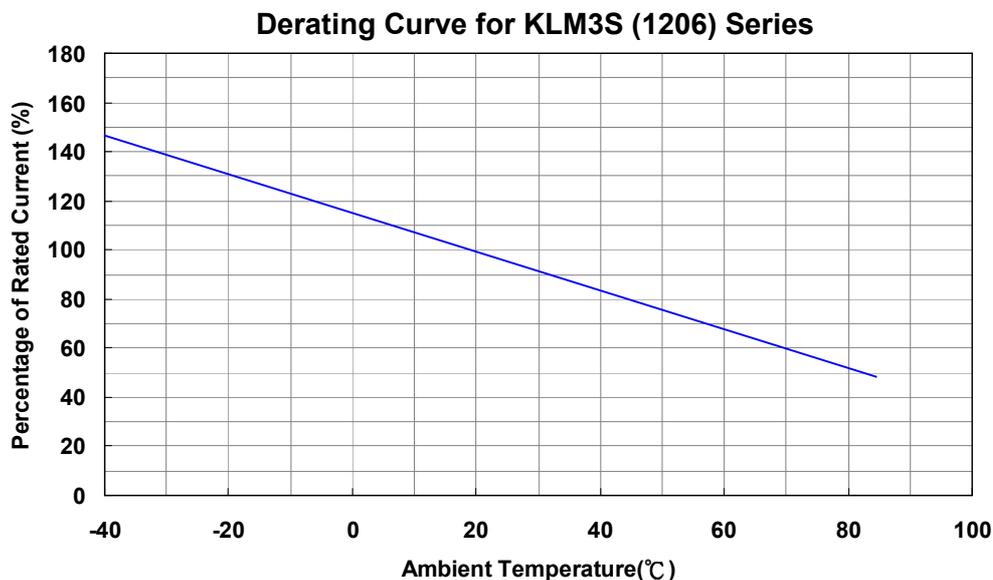
Part No.		Ambient Operation Temperature							
		-40°C	-20°C	0°C	23°C	40°C	60°C	70°C	85°C
KLM2S075	KLM2S075-12	1.24	1.07	0.94	0.75	0.62	0.47	0.37	0.21
KLM2S110	KLM2S110-12	1.93	1.65	1.38	1.10	0.83	0.55	0.41	0.23
KLM2S150	KLM2S150-12	2.37	2.07	1.80	1.50	1.25	0.93	0.74	0.50
KLM2S175	KLM2S175-12	2.57	2.33	2.07	1.75	1.49	1.24	1.00	0.91
KLM2S200	-	3.10	2.75	2.40	2.00	1.65	1.15	0.95	0.65
KLM2S260	-	3.80	3.30	2.80	2.60	2.20	1.78	1.55	1.05
KLM2S300	-	4.55	4.15	3.65	3.00	2.55	2.00	1.65	1.20
KLM2S350	-	5.60	4.38	3.81	3.50	2.74	2.28	1.93	1.37
KLM2S400	-	6.40	5.00	4.35	4.00	3.13	2.60	2.20	1.57

PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ KLM3S (1206) Series Ihold & Itrip Thermal Derating Curve



■ KLM3S (1206) Series Ihold Thermal Derating Chart

(Unit: A)

Part no		Ambient Operation Temperature							
		-40°C	-20°C	0°C	23°C	40°C	60°C	70°C	85°C
KLM3S075	KLM3S075-12	1.10	1.00	0.89	0.75	0.64	0.53	0.43	0.39
KLM3S110	KLM3S110-12	1.62	1.46	1.30	1.10	0.94	0.78	0.63	0.57
KLM3S150	KLM3S150-12	2.21	2.00	1.77	1.50	1.28	1.07	0.86	0.78
KLM3S175	-	2.57	2.33	2.07	1.75	1.49	1.16	0.90	0.80
KLM3S200	KLM3S200-12	3.30	2.90	2.50	2.00	1.62	1.24	1.00	0.85
KLM3S260	KLM3S260-12	3.71	3.42	3.01	2.60	2.08	1.49	1.30	0.89
KLM3S300	KLM3S300-12	4.41	3.99	3.54	3.00	2.55	2.13	1.71	1.56
KLM3S350	KLM3S350-12	5.15	4.66	4.13	3.50	2.98	2.49	2.00	1.82
KLM3S380	KLM3S380-12	5.59	5.05	4.48	3.80	3.20	2.29	2.05	1.98
KLM3S400	KLM3S400-12	5.71	5.26	4.63	4.00	3.30	2.60	2.16	2.05
KLM3S450	KLM3S450-12	6.62	5.99	5.31	4.50	3.83	3.20	2.57	2.10
KLM3S500	KLM3S500-12	7.20	6.60	5.80	5.00	4.25	3.40	3.00	2.34
KLM3S550	-	8.00	7.15	6.35	5.50	4.90	4.10	3.70	3.05
KLM3S600	-	8.65	7.80	7.00	6.00	5.30	4.50	4.05	3.40

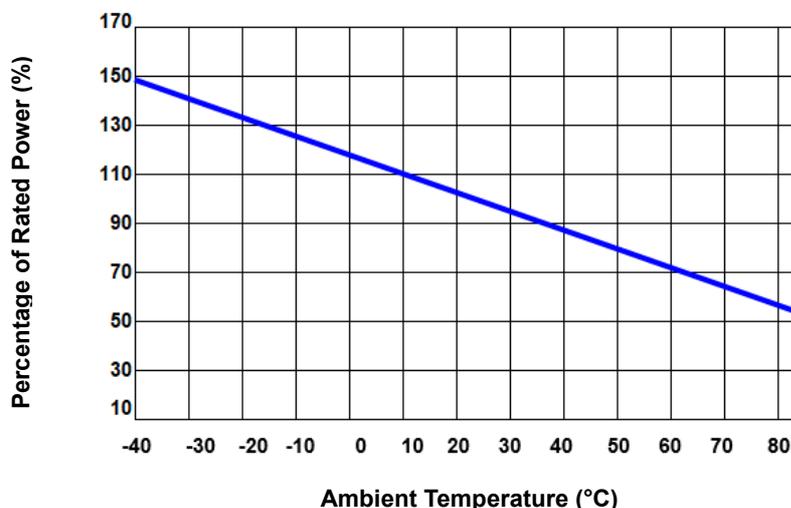
PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ KLM4S (1210) Series Ihold & Itrip Thermal Derating Curve

Derating Curve for KLM4S (1210) Series



■ KLM4S (1210) Series Ihold Thermal Derating Chart

(Unit: A)

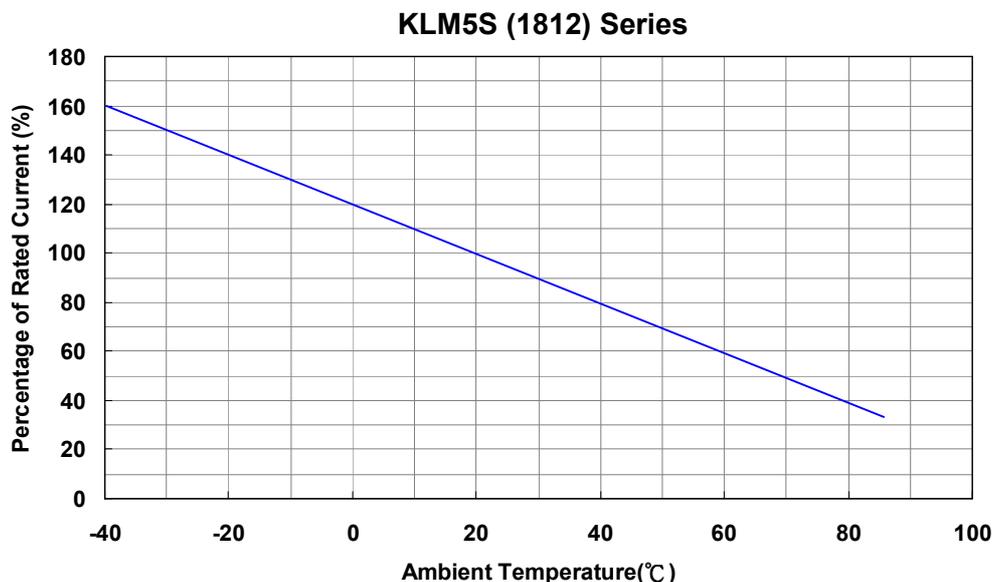
Part no		Ambient Operation Temperature							
		-40°C	-20°C	0°C	23°C	40°C	60°C	70°C	85°C
KLM4S175	KLM4S175-12	2.57	2.33	2.07	1.75	1.49	1.24	1.00	0.78
KLM4S200	KLM4S200-12	3.26	2.87	2.50	2.00	1.70	1.29	1.09	0.91
KLM4S260	KLM4S260-12	3.82	3.46	3.07	2.60	2.21	1.85	1.48	1.35
KLM4S300	KLM4S300-12	4.41	3.99	3.54	3.00	2.55	2.00	1.71	1.40
KLM4S350	KLM4S350-12	5.00	4.60	4.05	3.50	2.80	2.13	1.60	1.50
KLM4S380	KLM4S380-12	5.71	5.26	4.52	3.80	3.15	2.29	2.00	1.60
KLM4S400	-	6.00	5.28	4.63	4.00	3.20	2.39	2.09	1.73
KLM4S450	-	6.62	5.99	5.31	4.50	3.83	3.20	2.57	2.34
KLM4S500	-	7.30	6.60	5.65	5.00	4.27	3.50	3.00	2.55
KLM4S550	-	8.00	7.15	6.35	5.50	4.90	4.10	3.70	3.05
KLM4S600	-	8.65	7.80	7.00	6.00	5.30	4.50	4.05	3.40
KLM4S650	-	9.15	8.15	7.40	6.50	5.50	4.90	3.60	2.70
KLM4S700	-	9.85	8.80	7.95	7.00	5.95	5.30	3.90	2.90
KLM4S750	-	10.25	9.15	8.45	7.50	6.75	6.15	4.70	3.65
KLM4S800	-	11.76	10.56	9.28	8.00	6.81	5.68	5.10	4.16
KLM4S850	-	12.41	11.14	9.83	8.50	7.31	6.12	5.53	4.60
KLM4S900	-	13.05	11.70	10.40	9.00	8.00	6.75	6.05	5.00

PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ KLM5S (1812)Series Ihold & Itrip Thermal Derating Curve



■ KLM5S (1812) Series Ihold Thermal Derating Chart

(Unit: A)

Part no		Ambient Operation Temperature							
		-40°C	-20°C	0°C	23°C	40°C	60°C	70°C	85°C
KLM5S190	KLM5S190-12	3.00	2.58	2.22	1.90	1.49	1.14	0.93	0.61
KLM5S260	-	3.82	3.46	3.07	2.60	2.16	1.54	1.48	0.93
KLM5S270	KLM5S270-12	3.86	3.55	3.12	2.70	2.21	1.85	1.35	1.03
KLM5S300	KLM5S300-12	4.41	3.99	3.54	3.00	2.55	2.10	1.71	1.12
KLM5S350	KLM5S350-12	5.43	4.73	4.13	3.50	2.80	2.13	1.75	1.56
KLM5S370	KLM5S370-12	5.44	4.92	4.37	3.70	3.15	2.63	2.11	1.92
KLM5S400	KLM5S400-12	5.88	5.28	4.64	4.00	3.41	2.84	2.55	2.08
KLM5S450	KLM5S450-12	6.62	5.99	5.31	4.50	3.83	3.20	2.57	2.34
KLM5S500	KLM5S500-12	7.35	6.60	5.85	5.00	4.31	3.55	3.15	2.55
KLM5S550	-	8.12	7.32	6.40	5.50	4.85	3.88	3.40	2.55
KLM5S600	-	8.88	8.00	6.99	6.00	5.15	5.00	3.45	2.60
KLM5S650	-	9.65	8.66	7.58	6.50	5.55	4.50	3.65	2.75
KLM5S700	-	10.62	9.30	8.15	7.00	5.98	5.05	3.95	3.00
KLM5S750	-	11.35	9.95	8.70	7.50	6.75	5.75	4.95	3.55

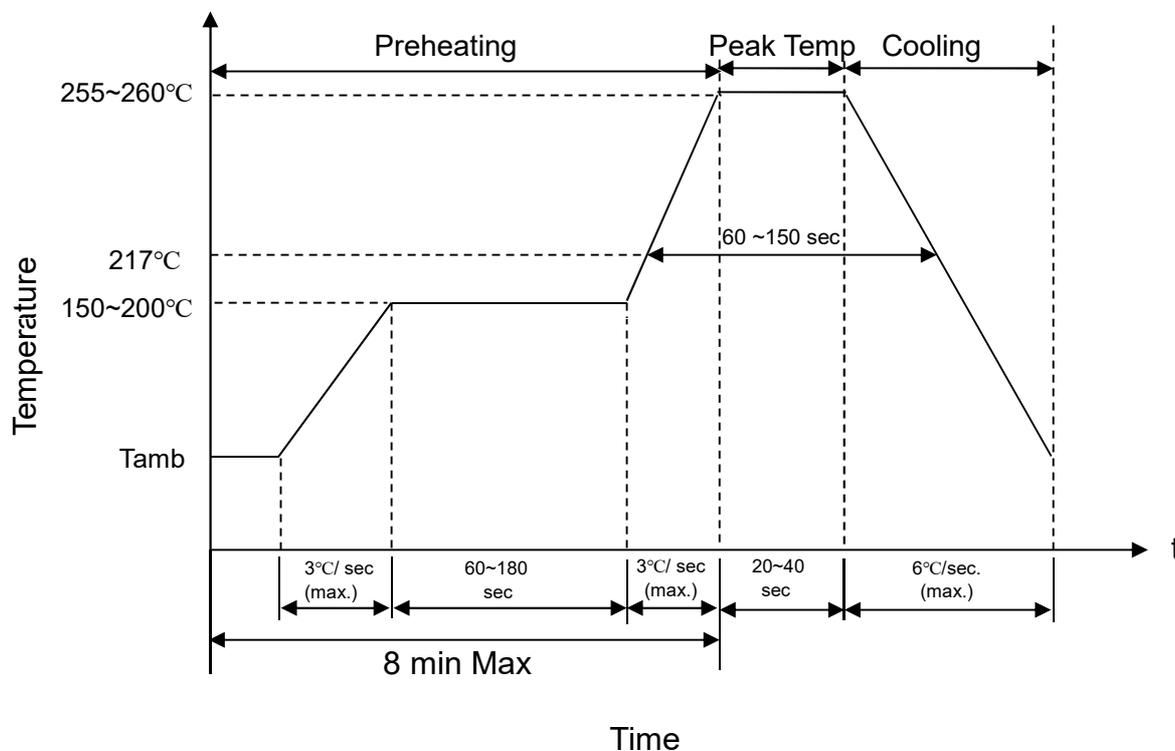
PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type



■ Recommended Soldering Condition

● IR-Reflow Soldering Profile



- Welding method of the product is reflow welding, and wave soldering is not recommended.
- Recommended reflow methods: IR, vapor phase, and hot air oven.
- Devices can be cleaned by using standard industry methods and solvents.

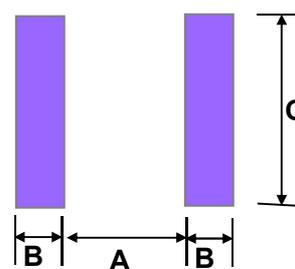
Note:

- If reflow temperature exceeds the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

■ Recommended Soldering Pad Dimensions (Nominal)

(Unit: mm)

Series	Size	A	B	C
KLM1S	0603	0.8	1.00	1.00
KLM2S	0805	1.20	1.00	1.50
KLM3S	1206	2.00	1.00	1.90
KLM4S	1210	2.00	1.00	2.80
KLM5S	1812	3.45	1.78	3.50



PPTC- Polymer PTC Resettable Fuse: KLM Series

SMD Low Resistance Type

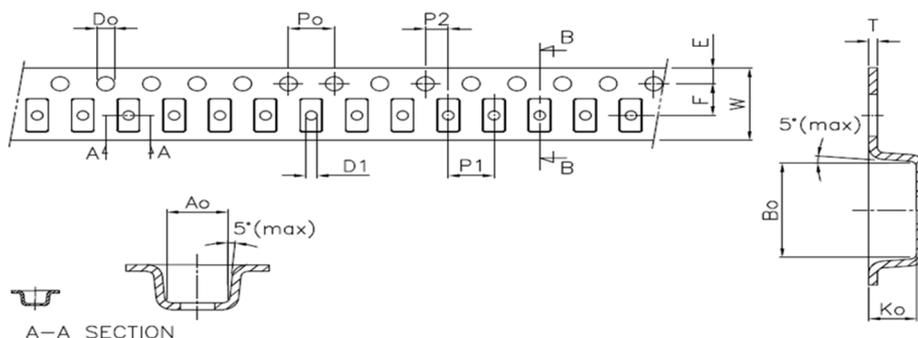


Reliability

Item	Standard	Test Condition / Methods	Criteria
Passive Aging	IEC 60738-1	85±5°C, 1000±24hrs	±10% typical resistance change
Humidity Aging	Specification Standard	85±5°C, 80~85%RH, 100±5hrs	±15% typical resistance change
Rapid Change of Temperature	IEC 60738-1	85±5/-40±5°C, 20 cycles Duration:30min	-30% typical resistance change
Overload and Endurance Test	UL 1434	Vmax, 120% Imax, 50 cycles Vmax, 300% Itrip, 6000 cycles	No visible damage
Aging Test	UL 1434	Vmax, Itrip ≤ I ≤ Imax, 1000±24hrs	No visible damage
Solderability	IEC 60068-2-58	245 ± 5°C, 3 ± 0.3sec	At least 95% of terminal electrode is covered by new solder.
Resistance to Soldering Heat	IEC 60068-2-58	260 ± 5°C, 10 ± 1sec	Rf < R1, No visible damage

Package

Taping Specification



◆ KLM1S Series: SMD 0603 Type

For KLM1S050 ~ KLM1S100

(Unit: mm)

Index Size	A ₀ ±0.05	B ₀ ±0.05	K ₀ ±0.05	P ₀ ±0.10	P ₁ ±0.10	P ₂ ±0.05	T ±0.05	E ±0.10	F ±0.05	D ₀ +0.10/ -0	D ₁ +0.10 -0.05	W +0.30 -0.10	10P ₀ ±0.20
0603	1.10	1.85	0.60	4.00	4.00	2.00	0.20	1.75	3.50	1.50	0.50	8.00	40.00

For KLM1S150 ~ KLM1S200

(Unit: mm)

Index Size	A ₀ ±0.05	B ₀ ±0.05	K ₀ ±0.05	P ₀ ±0.10	P ₁ ±0.10	P ₂ ±0.05	T ±0.05	E ±0.10	F ±0.05	D ₀ ±0.05	D ₁ +0.10/ -0	W ±0.10	10P ₀ ±0.20
0603	1.10	1.95	0.85	4.00	4.00	2.00	0.20	1.75	3.50	1.55	0.50	8.00	40.00



SMD Low Resistance Type

◆ KLM2S Series: SMD 0805 Type

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.050	±0.08	±0.10	±0.05	±0.10	±0.10	±0.05	±0.05	Min.	±0.10	±0.20
0805	1.60	2.30	0.90	4.00	4.00	2.00	0.25	1.75	3.50	1.55	1.00	8.00	40.00

◆ KLM3S Series: SMD 1206 Type

For KLM3S075~KLM3S150

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1206	1.85	3.45	0.85	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

For KLM3S175~ KLM3S600

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1206	1.95	3.55	1.40	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

◆ KLM4S Series: SMD 1210 Type

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1210	2.82	3.63	1.47	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

◆ KLM5S Series: SMD 1812 Type

For KLM5S190~ KLM5S400

(Unit: mm)

Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.03	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1812	3.50	5.00	0.90	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

For KLM5S450~ KLM5S750

(Unit: mm)

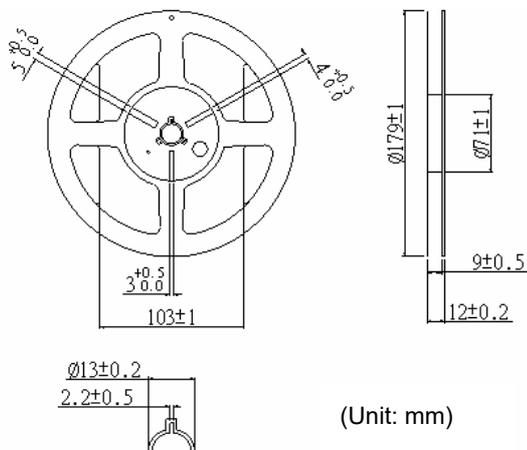
Index Size	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05	±0.10	±0.10	±0.05	Min.	±0.30	±0.20
1812	3.56	4.94	1.70	4.00	8.00	2.00	0.25	1.75	5.50	1.55	1.50	12.00	40.00

PPTC- Polymer PTC Resettable Fuse: KLM Series

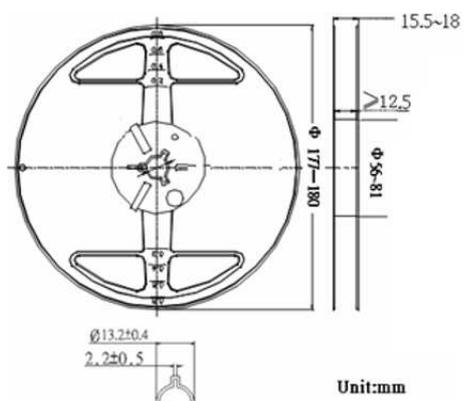
SMD Low Resistance Type



Quantity



Size	Part No.	Quantity (pcs/reel)	Carton Size (mm)	Quantity (reel/carton)
0603	KLM1S050~100	6,000	350*350*290	28
	KLM1S150~200	5,000		
0805	KLM2S	4,000		
1206	KLM3S075~150	5,000		
	KLM3S175~600	2,500		
1210	KLM4S	3,000		



Size	Part no	Quantity (pcs/reel)	Carton Size (mm)	Quantity (reel/carton)
1812	KLM5S190~400	2,000	350*350*290	24
	KLM5S450~750	1,000		

Warehouse Storage Conditions of Products

- Storage Conditions:
 1. Storage Temperature: -10°C ~+ 40°C
 2. Relative humidity: ≤ 75%RH
 3. Thermistors must be kept away from sunlight and stored in a non-corrosive atmosphere.
- Period of Storage: 1 year