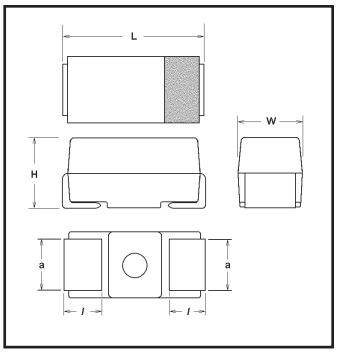
SAL SERIES



INTRODUCTION

The SAL Series Tantalum Chip Capacitors are designed to cover high capacitance values with low losses in case sizes "D" and "E". This Series is suitable for special application requiring Low ESR,DF and DCL.

FEATURES:

- LOW ESR, DF AND DC LEAKAGE CURRENT.
- HIGH RIPPLE CURRENT CARRYING CAPABILITY.
- HIGH SOLDER HEAT RESISTANCE - 269°C, 5 TO 10 SECS.
- COMPONENT REEL PACKING STDS- EIA-481-1 AND REELING PER IEC 286-3 IN 7" STANDARD REELS.
- EPOXY MOLDED COMPONENTS WITH CONSISTENT DIMENSIONS AND SURFACE FINISH. ENGINEERED FOR AUTOMATIC ONSERTION.
- COMPATIBLE WITH ALL POPULAR HIGH SPEED ASSEMBLY MACHINES.

GENERAL SPECIFICATIONS

CAPACITANCE RANGE: 10 µF To 330 µF.
VOLTAGE RANGE: 6.3 VDC to 35 VDC.
CAPACITANCE TOLERANCE: ±20%(M), ±10%(K), (±5%(J) - UPON REQUEST).
TEMPERATURE RANGE: -55 TO +125°C WITH DERATING ABOVE 85°C.
ENVIRONMENTAL CLASSIFICATION: 55/125/56 (IEC68-2).
DISSIPATION FACTOR: 10 TO 68 µF 4% MAX, 100 TO 330 µF 4% MAX.
LEAKAGE CURRENT: PLEASE REFER TO RATINGS TABLE ON FOLLOWING PAGE.
FAILURE RATE: 1% PER 1000 HRS.

LIFE TEST DETAILS

CAPACITORS SHALL WITHSTAND RATED DC VOLTAGE APPLIED AT 85°C FOR 2000 HRS OR DERATED DC VOLTAGE APPLIED AT 125°C FOR 1000 HRS. AFTER THE TEST:

1. CAPACITANCE CHANGE SHALL NOT EXCEED ±10% OF INITIAL VALUE.
2. DISSIPATION FACTOR SHALL BE WITHIN THE NORMAL SPECIFIED LIMITS.
3. DC LEAKAGE CURRENT SHALL BE WITHIN 125% OF NORMAL LIMIT.
4. NO REMARKABLE CHANGE IN APPEARANCE. MARKINGS TO REMAIN LEGIBLE.

CASE DIMENSIONS IN MILLIMETERS (INCHES)

CASE	EIA/IEC	L	W	H	l	a
D	7343	7.3±0.3 (0.287±0.012)	4.3±0.3 (0.170±0.012)	2.8±0.3 (0.110±0.012)	1.3±0.3 (0.051±0.012)	2.4±0.1 (0.095±0.004)
E	7343H (TALLER)	7.3±0.3 (0.287±0.012)	4.3±0.3 (0.170±0.012)	4.0±0.3 (0.158±0.012)	1.3±0.3 (0.051±0.012)	2.4±0.1 (0.095±0.004)

SAL SERIES RATINGS AND CASE CODES

CAPACITANCE		RATED VOLTAGE DC at 85 °C					
CODE	µF	6.3V	10V	16V	20V	25V	35V
106	10						D
156	15					D	E
226	22				D	D	E
336	33			D	D	E	
476	47			D	E		
686	68		D	E	E		
107	100	D	D	E			
157	150	E	D, E				
227	220	E	E*				
337	330	E*					

SAL SERIES SPECIFICATIONS

6.3 V DC Rated Voltage

Surge Voltage 8 VDC @ 85°C and 5 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD107K06R501	100	D	4.8	6	0.100	1.22
SALE157K06R501	150	E	7.2	6	0.100	1.28
SALE557K06R501	220	E	10.6	6	0.100	1.28
SALE557K06R501	330	E	15.8	6	0.100	1.28

10 V DC Rated Voltage

Surge Voltage 13 VDC @ 85°C and 8 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD686K10R501	68	D	5.4	4	0.175	0.93
SALD107K10R501	100	D	8.0	6	0.100	1.22
SALD157K10R501	150	D	8.0	6	0.150	1.22
SALE157K10R501	150	E	12.0	6	0.100	1.28
SALE227K10R501	220	E	17.5	6	0.100	1.28

16 V DC Rated Voltage

Surge Voltage 20 VDC @ 85°C and 12 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD336K16R501	33	D	4.2	4	0.225	0.82
SALD476K16R501	47	D	6.0	4	0.175	0.93
SALE686K16R501	68	E	8.7	4	0.150	1.05
SALE107K16R501	100	E	12.6	6	0.150	1.05

20 V DC Rated Voltage

Surge Voltage 26 VDC @ 85°C and 16 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD226K20R501	22	D	3.5	4	0.225	0.82
SALD336K20R501	33	D	5.3	4	0.225	0.82
SALE476K20R501	47	E	7.5	4	0.200	0.91
SALE686K20R501	68	E	10.9	4	0.200	0.91

25 V DC Rated Voltage

Surge Voltage 32 VDC @ 85°C and 20 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD156K25R501	15	D	3.0	4	0.275	0.74
SALD226K25R501	22	D	4.4	4	0.250	0.77
SALE336K25R501	33	E	6.6	4	0.225	0.86

35 V DC Rated Voltage

Surge Voltage 46 VDC @ 85°C and 28 VDC @ 125°C

SHARMA PART NUMBER	CAP VALUE µf	CASE CODE	DCL (MAX) at 25°C	DF% (MAX) at 25°C	ESR (MAX) OHMS at 100 KHz.	RIPPLE(MAX) I rms Amps. at 100 KHz.
SALD106K35R501	10	D	2.8	4	0.300	0.71
SALE156K35R501	15	E	4.2	4	0.275	0.77
SALE226K35R501	22	E	0.2	4	0.275	0.77