

Aluminum Capacitors Radial Style



FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Radial leads, cylindrical aluminum case
- High CV-product per unit volume
- Temperature range up to 105 °C



RoHS
COMPLIANT

APPLICATIONS

- General purpose, industrial and audio-video
- Coupling, decoupling, timing, smoothing, filtering, buffering in SMPS
- Portable and mobile equipment

QUICK REFERENCE DATA			
DESCRIPTION	UNIT	VALUE	
Nominal case size (Ø D x L)	mm	5 x 11 to 8 x 11.5	10 x 12.5 to 18 x 40
Rated capacitance range C _R	µF	2.2 to 22 000	
Capacitance tolerance	%	± 20	
Rated voltage range	V	6.3 to 100	160 to 350 400 to 450
Category temperature range	°C	- 55 to + 105	- 40 to + 105 - 25 to + 105
Load life	h	1000	2000
Based on sectional specification		IEC 60384-4/EN 130300	
Climatic category IEC 60068		55/105/56	40/105/56 25/105/56

SELECTION CHART FOR C _R , U _R , AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)								
C _R (µF)	RATED VOLTAGE (V) (> 100 V see next page)							
	6.3	10	16	25	35	50	63	100
2.2	→	→	→	→	→	→	5 x 11	5 x 11
3.3	→	→	→	→	→	→	5 x 11	5 x 11
4.7	→	→	→	→	→	→	5 x 11	5 x 11
6.8	→	→	→	→	→	→	5 x 11	5 x 11
10	→	→	→	→	→	→	5 x 11	5 x 11
15	→	→	→	→	→	→	5 x 11	6.3 x 11
22	→	→	→	→	→	→	5 x 11	6.3 x 11
33	→	→	→	→	→	5 x 11	6.3 x 11	8 x 11.5
47	→	→	→	→	5 x 11	→	6.3 x 11	10 x 12.5
68	→	→	→	5 x 11	6.3 x 11	→	8 x 11.5	10 x 16
100	→	→	5 x 11	→	6.3 x 11	→	8 x 11.5	10 x 20
150	→	5 x 11	→	6.3 x 11	8 x 11.5	→	10 x 12.5	12.5 x 20
220	→	5 x 11	6.3 x 11	→	8 x 11.5	10 x 12.5	10 x 16	12.5 x 25
330	↗	6.3 x 11	→	8 x 11.5	10 x 12.5	10 x 16	10 x 20	16 x 25
470	↘	6.3 x 11	8 x 11.5	10 x 12.5	10 x 16	10 x 20	12.5 x 20	16 x 25

SELECTION CHART FOR C_R , U_R AND RELEVANT NOMINAL CASE SIZES ($\varnothing D \times L$ in mm)						
C_R (μF)	RATED VOLTAGE (V)					
	160	200	250	350	400	450
2.2	→	→	6.3 x 11	→	8 x 11.5	10 x 12.5
3.3	→	6.3 x 11	→	8 x 11.5	10 x 12.5	10 x 16
4.7	6.3 x 11	→	8 x 11.5	→	10 x 12.5	10 x 16
6.8	8 x 11.5	→	10 x 12.5	→	10 x 16	10 x 20
10	→	→	10 x 12.5	10 x 16	10 x 20	12.5 x 20
15	→	→	10 x 16	10 x 20	12.5 x 20	12.5 x 25
22	→	10 x 16	10 x 20	12.5 x 20	12.5 x 25	16 x 25
33	→	10 x 20	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5
47	→	12.5 x 20	12.5 x 25	16 x 25	16 x 31.5	16 x 35.5
68	12.5 x 25	16 x 20	16 x 25	16 x 31.5	18 x 35.5	18 x 40
100	12.5 x 25	16 x 25	16 x 31.5	18 x 35.5	18 x 40	-
150	16 x 25	16 x 35.5	18 x 35.5	18 x 40	-	-
220	16 x 31.5	18 x 35.5	18 x 40	-	-	-
330	18 x 35.5	18 x 40	-	-	-	-
470	18 x 40	-	-	-	-	-

RADIAL STYLE: DIMENSIONS in millimeters									
$\varnothing D$	5	6.3	8	10	12.5	16	18	22	25
S	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
$\varnothing d$	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0
β	1.5			2.0					
α	0.5							1.0	

DIMENSIONS in millimeters AND AVAILABLE FORMS	
<p>$\varnothing D \leq 18$ long leads MALREKB00...</p>	<p>$\varnothing D \leq 18$ shortened leads MALREKB05... (S = 2 mm/2.5 mm/3.5 mm/5 mm/7.5 mm)</p>