



190 RTL Series Sample Kit Aluminum Electrolytic Capacitors, Radial



RoHS
COMPLIANT

FEATURES

- Very long useful life: 2500 h to 6000 h at 125 °C
- High stability, high reliability
- Very low ESR
- AEC-Q200 qualified
- Excellent ripple current capability
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Radial leads, cylindrical aluminum case with pressure relief, insulated with a blue PET sleeve
- Charge and discharge proof
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES



ORDER CODE

MAL219099001E3

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case sizes (Ø D x L in mm)	10 x 12 to 18 x 35
Rated capacitance range, C _R	100 µF to 6800 µF
Tolerance on C _R	± 20 %
Rated voltage range, U _R	16 V to 50 V
Category temperature range	-55 °C to +125 °C
Endurance test at 125 °C	2000 h to 5000 h
Useful life at 125 °C	2500 h to 6000 h
Useful life at 40 °C, 1.8 x I _R applied	400 000 h
Shelf life at 0 V, 125 °C	1000 h
Based on sectional specification	IEC 60384-4 / EN 130300
Climatic category IEC 60068	55 / 125 / 56

APPLICATIONS

- Power supplies (SMPS, DC/DC converters) for industrial, automotive, telecommunications and military
- Smoothing, filtering and buffering

PACKED SAMPLE KIT VALUES			
CAPACITANCE (µF)	VOLTAGE (V)	DIMENSIONS D x L (mm)	PART NUMBER
1000	16	10 x 20	MAL219055102E3
2200	16	12.5 x 25	MAL219055222E3
6800	16	18 x 31	MAL219055682E3
470	25	10 x 16	MAL219056471E3
1000	25	12.5 x 20	MAL219056102E3
4700	25	18 x 31	MAL219096475E3
1000	35	12.5 x 25	MAL219050102E3
1800	35	16 x 25	MAL219050182E3
2200	35	16 x 31	MAL219090225E3
100	50	10 x 12	MAL219051101E3
470	50	12.5 x 20	MAL219051471E3
1000	50	16 x 25	MAL219091105E3

Note

- For further technical specifications please look into datasheet of series 190 RTL: www.vishay.com/doc?28465