

UP36-37 Series

Unlytic[™] Miniature Series UP36/37 Unlytic[™] Miniature Series

The type UP36/UP37 miniature Unlytic[™] is the best choice for "Decoupling" in high-power converter designs.

Searchdatashe



FEATURES

- → Higher voltage ratings
- ∼ Superior performance over temperature ranges -55°C to 105°C
- → Dry construction (no harmful electrolytes)
- ∼ Non-polar
- Voltage ratings convenient for European designs
- Spade lug terminals for high current carrying capacity

STANDARD CONFIGURATION

- ∼ UP36: Board standoff mount
- ∼ UP37: Board feedthrough mount



SPECIFICATION SUMMARY

Capacitance Range

 $4.7\mu F$ to $35.0\mu F$

Capacitance Tolerance

Standard capacitance tolerance is ± 10%.

Operating Temperature Range

-55°C to +105°C

Enclosure/ Construction

Voltage Rating

500VDC to 1500VDC

Quality Control

Capacitors are tested 100% for:

- ° Capacitance tolerance
- ° Dissipation Factor
- ° Dielectric withstanding voltage
- ° Insulation Resistance
- ° Equivalent Series Resistance (ESR)

Environmental

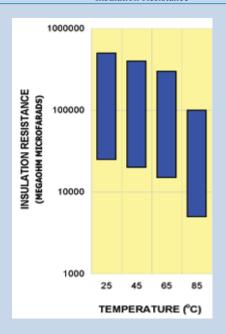
Parameter	Condition	Method	
Vibration			
Immersion			
Shock			
Humidity			
Thermal Shock			
Reference MIL-STD-202			



CHARACTERISTICS

Insulation Resistance

Temparature	25C	85C		
Megaohms x Microfarads	25,000	5,000		
Insulation Resistance				

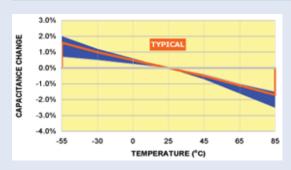


Dielectric Strength

Capacitors withstand a DC potential of 130% rated voltage for two (2) minutes without damage or breakdown. Test voltage is applied and discharged through a resistance of 1 ohm per volt minimum, and at 25°C

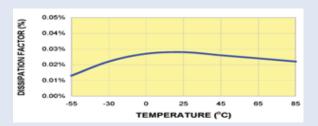
Capacitance Change





Dissipation Factor

When measured at the frequency specified for capacitance measurement, the dissipation factor will not exceed 0.1%.





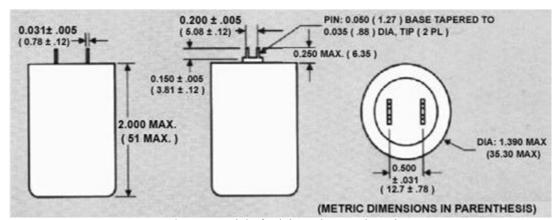


UP36 / UP37

Part Number	Cap (μF)	VDC	ESR 100 kHz	25C Amps	50C Amps	75C Amps	lpk (AMPS)	dv/dt v/us	ESL (nH)	Fres (kHz)
UP3_BA0350	35	500	0.009	22.6	18.5	14.0	861	25	35	143
UP3_BC0300	30	600	0.011	20.4	16.9	12.4	844	28	35	155
UP3_BF0200	20	750	0.013	18.8	15.6	11.4	703	35	35	189
UP3_BJ0140	14	900	0.015	17.3	14.4	10.5	591	42	35	226
UP3_BL0100	10	1000	0.017	15.7	13.0	9.5	492	49	35	268
UP3_BN0070	7	1200	0.020	13.6	11.3	8.3	394	56	35	320
UP3_BS0047	4.7	1500	0.023	12.7	10.5	7.7	331	70	35	391

60% LINEAR VOLTAGE DERATING FROM 85°C TO 105°C NOT INTENDED FOR USE IN AC APPLICATION

Mechanical Data



UP37 uses straight feed through mounting tabs



ADDITIONAL INFORMATION

UNLYTIC® technology provides a dry film solution for electolytic capacitor replacement, offering ten (10) times the current density and three (3) times the over voltage protection. For safety, eliminates the possibility of caustic electrolyte leakage and its harmful effects to the environment.

For Switching power supplies where high voltages at elevated temperatures in addition to high dv/dt as well as peak current are also required.



HOW TO ORDER

TYPE Metallized Polypropylene		UP36
VOLTAGE Voltage range from 500VDC to 1500VDC		BA
CAPACITANCE IN MICROFARADS Last 3 characters represent capacitance to 1 significant digit. 350 = 35.0uF	-	0350
TOLERANCE K=±10%		K

Marking And DateCode

All capacitors are marked with one or more of the following: company initials "EC", corporate logo or EC trademark -- in addition to type UL30, minimum capacitance value, rated DC working voltage and date code. The first two digits of the date code represent the year, the second two digits the week, i.e., 9952 is the 52nd week of 1999, 0102 is the second week of 2001.

Quality Assurance

Major emphasis is placed on quality assurance. Raw material inspection and the use of SPC manufacturing procedures assure the highest quality standards. Procedures are fully described in the EC Quality Control Manual. Electronic Concepts, Inc. will continue to advance the state-of-the-art by utilizing leading edge technology, compact capacitor designs and establishing reliability procedures.



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