



ELECTRONIC CONCEPTS INC.

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COMPONENT SPECIFICATION SHEET

ISSUANCE SPECIFICATIONS

1. E.C.I. PART NUMBER: UP9-31204K
2. DATE ISSUED: 02/25/2021
3. REVISION LEVEL: E

- COMPONENT DESCRIPTION:** METALLIZED POLYPROPYLENE FILM POTTED IN A RECTANGULAR PLASTIC HOUSING. ALUMINUM MOUNTING FEATURES SHALL BE FASTENED EXTERNALLY. BUSS TERMINALS SHALL BE PLATED COPPER AND WILL INCLUDE G-10 ELECTRICAL INSULATORS/SPACERS.

ELECTRICAL SPECIFICATIONS

1. **NOMINAL CAPACITANCE (MICROFARADS): 600**
 - TEST FREQUENCY (HERTZ): 120
 - TEST TEMPERATURE (°C): 25
2. **TOLERANCE (%): +/-10%**
3. **CAPACITANCE CHANGE OVER TEMPERATURE**
 - TEMPERATURE COEFFICIENT OF CAPACITANCE IS +1.4% TO -3.5% OVER THE TEMPERATURE RANGE OF -55°C TO 105°C.
4. **D.C. VOLTAGE RATING (VOLTS-D.C.): 900**
 - TEMPERATURE RANGE (°C): -55 TO +105
5. **INSULATION RESISTANCE (MEGAOHMS) MINIMUM: 16**
 - TEST VOLTAGE (VOLTS-D.C.): 500
 - TEST TEMPERATURE (°C): 25
6. **STORAGE TEMPERATURE RANGE (°C): -55 TO +105**
7. **OPERATING TEMPERATURE RANGE (°C): -55 TO +105**
8. **DIELECTRIC STRENGTH (VOLTS-D.C.) MAXIMUM: 1200**
 - APPLIED AND DISCHARGED THROUGH ONE OHM PER VOLT MINIMUM
 - TEST TEMPERATURE (°C): 25
9. **E.S.R. (MILLIOHMS) MAXIMUM: 1**
 - TEST FREQUENCY (KILOHERTZ): 10
 - TEST TEMPERATURE (°C): 25
 - SPECIFICATION NOTE: THE ESR IS BASED ON RESISTANCE READINGS THAT WOULD BE TAKEN AT RESONANT FREQUENCY WHERE CAPACITIVE AND INDUCTIVE REACTANCES OF THE UNIT WOULD CANCEL OUT LEAVING ONLY TRUE RESISTANCE. RLC METER READINGS AT FIXED FREQUENCY MAY SHOW VARIANCES THAT ARE NOT REFLECTIVE OF THE TRUE ESR.
10. **E.S.L. (NANOHENRIES) MAXIMUM: 15**
11. **RESONANT FREQUENCY (KILOHERTZ) TYPICAL: 53**
12. **PEAK CURRENT (AMPS) MAXIMUM: 21,164**
13. **DV/DT (VOLTS/MICROSECOND): 35**

