auricap

SPECIFICATIONS

CONSTRUCTION: Auricap metalized polypropylene capacitors are available only in extended foil (non-inductive) construction.
PACKAGING: Polyester tape wrap with epoxy end fills gives the best possible volume density for this type unit. Custom packaging and labeling is available on custom design orders.
LEADS: Auricap leads are of polished, stranded High Purity Oxygen Free Copper with XLPE insulation. Tinned copper leads are available on custom order.
TEMPERATURE RANGE: May be operated at rated DC voltage from -55°C to +85°C or to +105°C at voltages indicated by the derating curve on the applications page.
ELECTRICAL [NON-DESTRUCTIVE] TESTS:
1. Capacitance shall be measured at or referred to 1000Hz ±20Hz at 25°C ±5°C for capacitance values up to and including 1.0MF Capacitance values greater than 1.0MF shall be measured at 60Hz ±6Hz.
Ref: MIL-STD-202E, Method 305.
2. Dissipation factor shall be measured as described for capacitance and shall not exceed 0.2%. Typical values, throughout temperature range, are given on curves on the Auricap Application page.
3. Insulation resistance shall be measured at rated voltage or 500VDC whichever is less. After 2 minutes electrification, minimum values shall be 200,000 meg/MF, need not exceed 400,000 megohms.
Ref: MIL-STD-202E, Method 302.
4. Dielectric Strength: Capacitors shall withstand specified DC test potential for 60 seconds through a limiting resistance of 1 ohm/volt.
Terminal to terminal — 150% of DC rating.
Terminal to case — 200% of DC rating.
Ref: MIL-STD-202E, Method 301.
5. Dielectric Absorption: Dielectric absorption shall not exceed 0.1% when tested to MIL-C-19978D.
Ref: MIL-C-19978D. Paragraph 3.22.

ENVIRONMENTAL TESTS:
1. Vibration: Capacitors will meet or exceed the requirements of MIL-STD-202E, Method 204C.
2. Moisture Resistance: Capacitors will meet or exceed the requirements of MIL-STD-202E, Method 103B, Condition B, with 500V or rate voltage applied, whichever is less.
3. Life Test: Will withstand 140% of rated DC voltage for 250 hours at 105°C. No more than 1 failure in 12 units permitted when tested.
4. Lead Pull Test: The leads on these capacitors shall withstand a steady axially applied pull of 5lbs. for one minute.

CUSTOM DESIGN
Available on short notice — special shapes, values, characteristics, combination sections and networks. Non-metallic cases or fabricated steel and brass with glass-to-metal seals.
Engineering service is expert and prompt.

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