

Kingtronics®

Q.C. Flow (Quality Control Flow)

① Incoming Material Inspection

Key Checks:

1. Raw material (electrolyte, foil, dielectric) certificates
2. Dimensional accuracy of metalized film/electrodes
3. Moisture content (for hygroscopic materials)



② Winding/Assembly Process

Control Points:

1. Tension control of foil/film
2. Alignment of electrodes
3. Visual inspection for scratches/contamination



Manufacturing Q.C. Flow (Quality Control Flow) 

③ Impregnation (for Electrolytic Capacitors)

Tests:

1. Vacuum/pressure levels
2. Electrolyte filling volume



⑤ Electrical Testing

Parameters:

1. Capacitance value ($\pm$ tolerance)
2. ESR (Equivalent Series Resistance)
3. Leakage current
4. Dielectric withstand voltage



④ Aging Process

1. Room Temperature Voltage & Current
2. High Temperature Voltage & Current



⑥ Final Inspection & Packaging

Checks:

1. Visual defects (dents, labeling errors)
2. Batch/lot traceability marking
3. Environmental testing (sampling: humidity, thermal cycling)



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