we are trusted

Our capacitors ensure your safe arrival

TRACK CIRCUIT CAPACITORS

www.api-capacitors.com

apicapacitors

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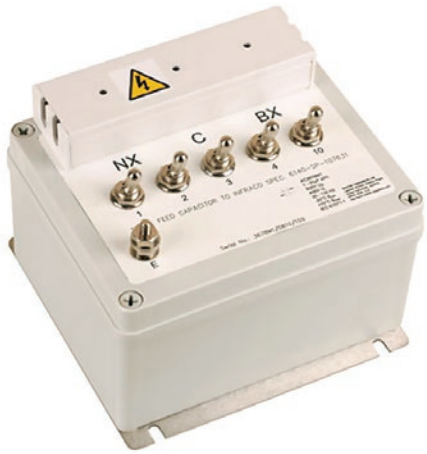

API Capacitors offer a range of low frequency AC adjustable track circuit feed/relay end capacitors and high frequency DC fixed capacitors for jointless track circuits used in track-side signalling equipment.

Long life and high reliability is achieved for both variants using ultra low defect density, high isotactic, metallised polypropylene dielectric film with self-healing capability. Elements are wound on the latest precision edge controlled automatic winding machines.

Low frequency AC adjustable track circuit feed/relay end capacitors are manufactured with multiple capacitive sections that can be switched using locking metal switches to match the track circuit conditions. Resistors are incorporated into the design to protect against transient peak currents. Capacitive elements are hermetically sealed within polyurethane resin and enclosed in an IP67 rated insulated case.

High frequency DC fixed capacitors for jointless track circuits are manufactured to less than 1% tolerance and incorporate a dielectric system that ensures capacitance stability across a wide temperature range. Capacitive elements are hermetically sealed within polyurethane resin and enclosed in an aluminium case.

Typical Applications*

Used in Transportation.

Passenger/Freight Rail (Traction, Signalling)

Features

Long Life and High Reliability
Self-Healing Technology
Dry Leak Free Designs
Insulated Cases
UV Resistance, Halogen Free, Low Smoke and Flame Retardant Materials

Custom Design Capacitors

Designed to meet detailed specifications. Our technical sales representatives can work closely with your design team at concept stage or at the later stages of a project when a time critical design is needed. Alternatively like for-like replacements for older retro-fit designs can be offered.

Typical Characteristics*

Rated Capacitance (C):	1 to 200 µF
Peak Repetitive Voltage (U_{NDC}/U_N):	160 to 1200 V
Continuous RMS Current (I_{max}):	0.5 to 40 A_{rms}
Frequency (f_p):	25 to 6,000 Hz
Ambient Temperature (θ_{amb}):	-40 to +70 °C
Case Materials:	Aluminium and Insulated Materials
Termination:	Threaded M6 (1BA option) Brass Nickel Plated, Copper Braid Tin Plated
Related Standards:	BS EN 61071 and Other Related Rail Standards

* Applications and characteristics are for guidance only. Please contact us to discuss our full design capability.