

What is a liquid-metal spiral capacitor?

The liquid-metal spiral capacitor consists of tube 2 spiralled around the entire length of tube 1 (Fig. 3d). Tube 1 was fully filled with liquid metal, and liquid metal was pumped into tube 2.

What are the different types of liquid metal capacitors?

Various shapes of liquid-metal capacitors a Folded-tube liquid-metal capacitor. Tube 1 is filled with liquid metal and wrapped around tube 2. Liquid metal in tube 2 is actuated to vary capacitance b Liquid-metal coil capacitor. Tube 1 is filled with liquid metal, and tube 2 is incrementally filled with liquid metal.

What is a liquid-metal folded-tube capacitor?

The liquid-metal folded-tube capacitor consists of a folded tube 1 that envelops tube 2 on both sides (Fig. 3a). The tubing and the electrical connections to the impedance analyser are the same as described in the section 'tunable liquid-metal parallel-tube capacitor'.

How are capacitors fabricated?

The capacitors are easily fabricated by placing a pair of liquid-metal-filled tubes in contact with one another. Tunability is achieved by varying the length of the liquid metal in one of the tubes using a mechanical pump. Four different structures are demonstrated: parallel-tube, folded-tube, coil, and spiral capacitors.

What is the simplest tunable liquid-metal capacitor structure?

The simplest tunable liquid-metal capacitor structure consisted of two parallel tubes (Fig. 1). A pair of 260 mm-long PVC tubes was used to form a tunable liquid-metal parallel-tube capacitor using the methods mentioned above.

What makes a tube capacitor a good capacitor?

This gives a very high electrical strength in a capacitor with such compact dimensions. The TubeCap combines a high degree of dielectric strength and low residual inductivity with a very compact form of construction.

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Four types of liquid-metal-based tunable capacitors with a high tuning range are demonstrated. The capacitors are easily fabricated by placing a pair of liquid-metal-filled tubes in contact with one another. Tunability is achieved by varying the length of the liquid metal in one of the tubes using a mechanical pump. Four different structures are demonstrated: parallel-tube, folded ...

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Tunable liquid-metal folded-tube capacitor: The liquid-metal folded-tube capacitor consists of a folded tube 1 that envelops tube 2 on both sides (Fig. 3a). The tubing and the electrical connections to the impedance analyser are the same as described in the section "tunable liquid-metal parallel-tube capacitor".

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