



Femtofarad standard type RFS 101A

Product details

The femtofarad standard type RFS 101A is a low value capacitor designed to obtain reliability and high stability. It is primarily used for calibrating and testing low capacitance meters eg. used in Electrical Capacitance Tomography or testing charge preamplifier circuits.

Parameters and features of the product are specified in Tab1.

The product family consists of five low value capacitors (0,1fF...1000fF). The set of standards is provided in compact handy box (Fig. 2.)

Table 1: Product parameters

Capacitance value	0,1fF; 1fF; 10fF; 100fF; 1000fF target values (each RFS 101A standard is measured and marked); other values on request
Marked capacitance measurement conditions	50kHz; 100Vrms; 25°C; 1013hPa; ±1% measurement accuracy
Usable frequency range	0...20MHz
Temperature coefficient	-50...+300ppm/K (each RFS 101A standard is measured and marked)
Maximum voltage	±200Vdc , shield or case referenced
Parasitic capacitance (SMB inner to outer conductor)	ca. 8pF
Connectors	2x SMB-type (standard capacitor) 1x banana socket for grounding purpose
Temperature range	storing: -10°C...+60°C; operating: 10°C...40°C, non-condensing
Dimensions	ca. 90; 35; 35mm
Weight	ca. 0,1kg

