Vacuum Capacitors

Codes: K50/2L
K100/2L

These capacitors are small vacuum dielectric units, intended principally for use as part of the tank circuit capacitance in radio frequency amplifiers or oscillators.

The use of vacuum as the dielectric enables the capacitors to be of small dimensions for a high voltage rating and capacitance.

	K50/2L	K100/2L	
CAPACITANCE ± 10%	50	100	pF
DIMENSIONS.			
Maximum overall length	170	170	mm
Maximum bulb diameter	58.7	58.7	mm
Maximum overall diameter	65	65	mm
Net weight	230	260	g
MAXIMUM RATINGS.			
Maximum peak voltage	32	28	kV
Maximum r.m.s. current	28	28	A
Maximum frequency for above ratings	20	20	Mc/s

These capacitors may be operated at the full maximum voltage at any frequency below that at which the r.m.s. current through the capacitor is 28 amperes. Above this frequency the r.f. voltage across the capacitor must be reduced to prevent the current exceeding the maximum rating. Curves are included in this data which show the relationship between maximum ratings and frequency.

Where both r.f. and d.c. voltages are applied to the capacitor the sum of the peak r.f. and d.c. voltages must not exceed the peak voltage rating of the capacitor.

The clips or other devices used to make connection to the end caps of these capacitors must be kept clean and must at all times make good contact with the capacitor end caps. Failure to maintain a low resistance contact may result in excessive heating and permanent damage to the capacitor.

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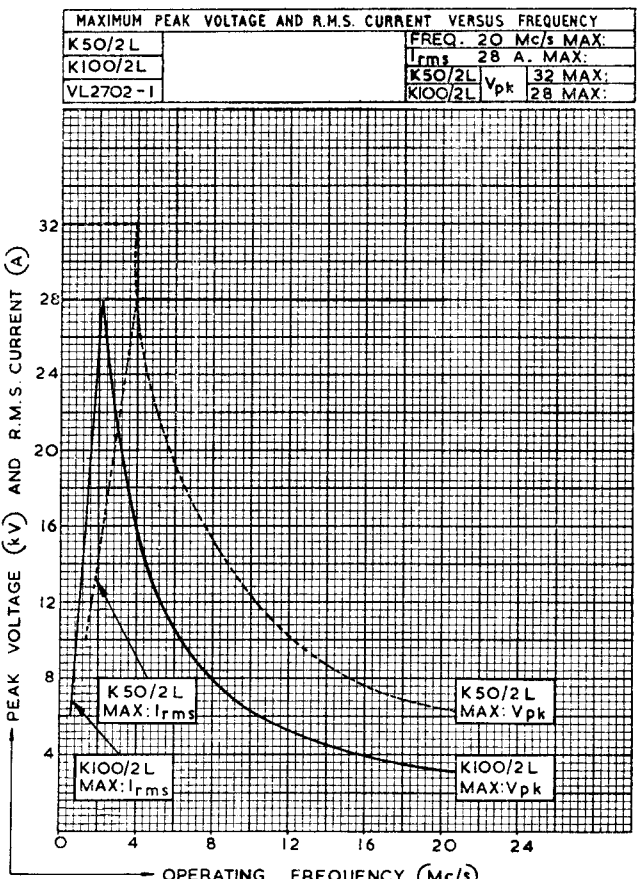

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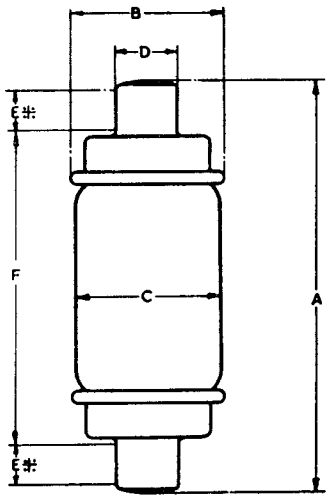

DIM	MILLIMETRES	INCHES
A	170 MAX.	6 11/16 MAX.
	164 MIN.	6 7/16 MIN.
B	65	2 9/16
C	58·7 MAX.	2 5/16 MAX.
D	25·40 ± 0·25	1·000 ± 0·010
E	16 MIN.	5/8 MIN.
F	135 MAX.	5 5/16 MAX.

* DENOTES:— CONTACT LENGTH.

NOTE:— BASIC FIGURES ARE INCHES.