

# Ac Metallized Polypropylene Film Capacitors (MKP) Dependent Values with Equivalent Circuit

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**Abstract** - The dominant capacitor type used in a wide range of power and electronic circuit applications capacitors are Metallized polypropylene (MKP) capacitors. MKP capacitors offer high volumetric capacitor density, low cost, excellent frequency characteristics and a unique ability to recover from point failures in the dielectric film. These properties and especially the self healing capability make the MKP capacitor the capacitor of choice around the world for low power applications. Equivalent series resistance and capacitance of the traditional capacitor equivalent circuit, to frequency and the physical parameters of a capacitor are demonstrated. Spiral-wound cylindrical capacitors without schooping end spray connections were used to model metallized film disconnected from direct connection to the schooping in corroded capacitors are formulated relatedly.

The simple formulae for equivalent series resistance and capacitance, derived empirically from the diffusion equation modelling, were found to accurately reproduce experimental results for model experimental capacitors. Source or connection impedance was found to accurately model a rise in dissipation factor at higher frequencies. The paper presents a best fit values for external inductance and source resistance were used in this modeling. Inclusion in the discrete model of a series resistance inversely proportional to frequency effectively modeled the flat low frequency dissipation factor of the commercial polypropylene capacitor.

**Keywords**— Metallized polypropylene (MKP); Dissipation factor; Capacitor equivalent circuit.

## 1. INTRODUCTION

The capacitor type used almost exclusively for low power ac application is the The metallized polypropylene (MKP) capacitor. Typical applications are in snubber circuits, general filtering, and split phase low power electric motors and power factor correction circuits. The main development stages of MKP capacitor is shown in Fig.1. The first stage is the coiled cylindrical element, the second stage is the element with the sprayed ends, the third stage is the element with the two connection wires, and the fourth stage is the complete capacitor. A clear 1.5mm to 3mm wide border on one edge of each ensures electrical connection is not made to the schooping metallization on that edge. Schooping metallization refers to plasma-arc-Typical examples of cylindrical MKP capacitors are shown in Fig. 2. The configuration of the normal connection of an

MKP capacitor is shown in Fig. 3. Two polypropylene strips, typically between 6 and 12 micrometers in thickness, are co-wound on an insulating mandrel.

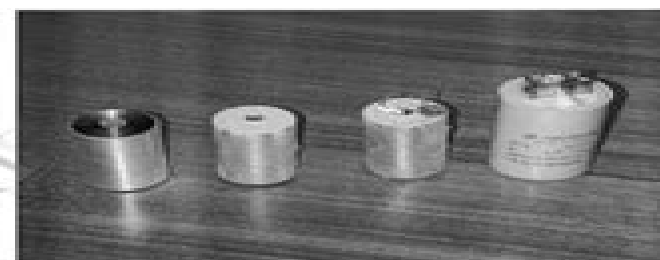


Fig.1: From left: the coiled cylindrical element; the element with the sprayed ends; the element with the two connection wires; and the complete capacitor.

The two spiral wound strips has metallization covering most but not all of their width. sprayed zinc particles which form a metallic cap on each end of the cylinder to which wires are later attached.



Fig. 2: Typical cylindrical low power MKP capacitors. The two removed from their cases are degraded through use.

Corrosion can breach the direct connection between the schooping end spray and the film metallization by

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Reliability Engineering Alessandro Birolini, 2017-05-19 This book shows how to build in and assess reliability availability maintainability and safety RAMS of components equipment and systems It presents the state of the art of reliability RAMS engineering in theory practice and is based on over 30 years author s experience in this field half in industry and half as Professor of Reliability Engineering at the ETH Zurich The book structure allows rapid access to practical results Methods tools are given in a way that they can be tailored to cover different RAMS requirement levels Thanks to Appendices A6 A8 the book is mathematically self contained and can be used as a textbook or as a desktop reference with a large number of tables 60 figures 210 and examples exercises 10 000 per year since 2013 were the motivation for this final edition the 13th since 1985 including German editions Extended and carefully reviewed to improve accuracy it represents the continuous improvement effort to satisfy reader s needs and confidence New are an introduction to risk management with structurally new models based on semi Markov processes to the concept of mean time to accident reliability availability of a k out of n redundancy with arbitrary repair rate for  $n \geq k \geq 1$  new homework problems and refinements in particular on multiple failure mechanisms approximate expressions incomplete coverage data analysis and comments on MTBF MTTF MTTR R PA

**Evaluation Engineering** ,1983 *Electronics* ,1983 June issues 1941 44 and Nov issue 1945 include a buyers guide section Quality and Reliability of Technical Systems Alessandro Birolini, 2013-03-14 High reliability maintainability and safety are expected from complex equipment and systems To build these characteristics into an item failure rate and failure mode analyses have to be performed early in the design phase starting at the component level and have to be supported by a set of design guidelines for reliability and maintainability as well as by extensive design reviews Before production qualification tests of prototypes must ensure that quality and reliability targets have been reached In the production phase processes and procedures have to be selected and monitored to assure the required quality level For many systems availability requirements must also be satisfied In these cases stochastic processes can be used to investigate and optimize availability including logistical support This book presents the state of the art of the methods and procedures necessary for a cost and time effective quality and reliability assurance during the design and production of equipment and systems It takes into consideration that 1 Quality and reliability assurance of complex equipment and systems requires that all engineers involved in a project undertake a set of specific activities from the definition to the operating phase which are performed concurrently to achieve the best performance quality and reliability for given cost and time schedule targets *Electronics Buyers' Guide* ,1980 *Reliability Engineering* A. Birolini, 2013-04-17 Reliability engineering is a rapidly evolving discipline whose purpose is to develop methods and tools to predict evaluate and demonstrate reliability maintainability and availability of components equipment and systems as well as to support development and production engineers in building in reliability and maintainability To be cost and time effective reliability engineering has to be coordinated with quality assurance

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**Fixed Capacitors for Use in Electronic Equipment** British Standards Institution,2020

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