

File E314875  
Project 07CA42695

November 7, 2007

REPORT

ON

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

ShenZhen Surong Capacitors Co Ltd  
ShenZhen, China

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component - Capacitors, Model MPX/MKP Series.

## ELECTRICAL RATING:

Model	Input		Capacitance, uF
	Voltage, V ac	Frequency, Hz	
MPX/MKP Series,	250	50/60	0.001 - 4.7

## TECHNICAL CONSIDERATIONS (Not For Field Representative's Use):

Use - For use only (or with ) where the acceptability of the combinations determined by Underwriters Laboratories Inc.

USR indicates investigation to UL 1283, Standard for Electromagnetic Interference Filters, Fifth Edition.

CNR Indicates investigation to Canadian Standard CSA C22.2 No.8-M1986.

Conditions Of Acceptability - The following shall be considered in determining the acceptability.

1. An enclosure shall be provided in compliance with the applicable end-use product requirements.
2. Electrical spacings from uninsulated parts and the enclosure shall comply with the requirements of the end-use product.
3. Electrical terminals have not been investigated as field wiring terminals.
4. The filters have not been investigated as Line to ground capacitor.
5. The filters shall not be used in circuits supplied from voltage sources with potentials greater than 305 V ac.
6. The Stored Energy Test was not conducted on the filter and should be considered in the end-use product.

Maximum RTI of enclosure material employed on these filters is 75 °C. However, these filters are testing under 100 °C oven condition. Additional evaluation should be made if the unit is intended to be used in a higher ambient temperature.

## CONSTRUCTION DETAILS:

Unless otherwise described, the following paragraphs apply to all units included in this Report.

Spacings - Electrical spacings of 2.4 mm are maintained over surface and 2.4 mm are maintained through air between uninsulated live-metal current carrying parts of opposite polarity.

Corrosion Protection - All ferrous metal parts are protected against corrosion by means of plating or painting.

Electrical Connections - Unless otherwise specified, all electrical connections are made by mechanically securing component leads and soldering.

Marking - the following items shall be marked

Company name and model designation.  
Maximum rated ambient air temperature  
Optionally marked electrical rating and date code.

Illustration - The following illustration is included in this Report.

<u>ILL. No.</u>	<u>Description</u>
1	MPX/MKP series capacitors Dimension

## MODEL DIFFERENCES:

All models are identical except the capacitance and dimension.

General - The general design, shape, and arrangement shall be as illustrated in the following figure, except where variations are specifically described.

## MODEL MPX/MKP SERIES - FIG. 1

General - FIG. 1 shows an overall view of the capacitors.

1. Enclosure - R/C (QMFZ2), PBT, manufactured by Guangzhou Kingfa Science & Technology Co Ltd (E171666), Type PBT-RG301, rated V-0, minimum 0.3 mm thick. Refer to Illustration 1 for dimensions.
2. Epoxy - R/C (QMFZ2), EP - Molding, manufactured by Juhexing Chemical Guangzhou Co Ltd, Type 5225A/B, rated V-0, minimum 0.8 mm.
3. Element - Constructed of metalized polypropylene films.
4. Leads - Bare wire, tin plated steel, silver, copper or copper-base alloy.
5. Marking - Refer Sec. Gen. For detail.