

File E62388
Project 07SC02613

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REPORT

ON

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

TDK Corp. Inductive Devices Div.
YURI-GUN, Japan

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DESCRIPTION

PRODUCT COVERED:

USR Component - Electromagnetic Interference Appliance Filters,

Models RTEN-5006, RTEN-5010, RTEN-5016, RTEN-5020, RTEN-5030, RTEN-5040, RTEN-5050, RTEN-5060, RTEN-5080, RTEN-5100 **and** RTEN-5150.

Models RTCN-5006, RTCN-5010, RTCN-5016, RTCN-5020, RTCN-5030, RTCN-5040, RTCN-5050, RTCN-5060, RTCN-5080, RTCN-5100 **and** RTCN-5150.

Models RTAN-5006, RTAN-5010, RTAN-5016, RTAN-5020, RTAN-5030, RTAN-5040, RTAN-5050 **and** RTAN-5060.

Models RTEN-5006D, RTEN-5010D, RTEN-5016D, RTEN-5020D **and** RTEN-5030D.

Models RTAN-5006D, RTAN-5010D, RTAN-5016D, RTAN-5020D **and** RTAN-5030D.

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ELECTRICAL RATINGS:

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RTEN-5006 RTCN-5006 RTAN-5006 RTEN-5006D RTAN-5006D	500	6	50/60	3	50
RTEN-5010 RTCN-5010 RTAN-5010 RTEN-5010D RTAN-5010D	500	10	50/60	3	50
RTEN-5016 RTCN-5016 RTAN-5016 RTEN-5016D RTAN-5016D	500	16	50/60	3	50
RTEN-5020 RTCN-5020 RTAN-5020 RTEN-5020D RTAN-5020D	500	20	50/60	3	50
RTEN-5030 RTCN-5030 RTAN-5030 RTEN-5030D RTAN-5030D	500	30	50/60	3	50
RTEN-5040 RTCN-5040 RTAN-5040	500	40	50/60	3	50
RTEN-5050 RTCN-5050 RTAN-5050	500	50	50/60	3	50
RTEN-5060 RTCN-5060 RTAN-5060	500	60	50/60	3	50
RTEN-5080 RTCN-5080	500	80	50/60	3	50
RTEN-5100 RTCN-5100	500	100	50/60	3	50
RTEN-5150 RTCN-5150	500	150	50/60	3	50

NOMENCLATURE:

Example: RTEN-5006D

RTEN	-	5	006	D
I		II	III	IV

I - <Model Name>

RTEN

RTCN

RTAN

II - <Rated Voltage>

5: 500 V

III - <Rated Current>

006: 6 A

010: 10 A

016: 16 A

020: 20 A

030: 30 A

040: 40 A

050: 50 A

060: 60 A

080: 80 A

100: 100 A

150: 150 A

IV - <Filter Chassis>

None: Standard type

D: Din rail type

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Models have been judged on the basis of the spacing requirements in the Standard for Electromagnetic Interference Filters (UL 1283 Fifth Edition) which would cover the component itself if submitted for unrestricted Listing.

USR - Indicates investigation to the Standard for Electromagnetic Interference Filters, UL 1283, Fifth Edition, latest revision dated July 31, 2007.

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For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. The following are among the features which should be judged during the investigation of the equipment in which this filter is used:

Conditions of Acceptability -

1. Leakage current shall be measured in the end-product to determine compliance with the applicable end-product requirements.
2. The end product shall not rely on the filter for grounding.
3. The filter should be provided with an overall enclosure suitable for the applicable end-product requirements.
4. The electrical ratings specified should not be exceeded.
5. These filters are not intended for use in radio, television, video, telephone, or telephone power supply type appliances.
6. The terminals have not been evaluated as field wiring terminals and shall be used for factory wiring only.

Conditions of Acceptability - (Cont.)

7. Suitability of mounting is to be determined in the end use product.
8. Suitability of grounding is to be determined in the end use product.
9. Polymeric covers have not been evaluated for mechanical strength of insulation.
10. These models have been evaluated to operate at an ambient temperature of 50°C.
11. **Abnormal Operating Test (Limited Short Circuit) at alternate current has been conducted as follows, tested using a fuse of type RK1:**

Model	Test current [A]	Fuse rating [A]
RTEN-5060	5000	60
RTEN-5150	5000	150