

AMERICAN NATIONAL STANDARD

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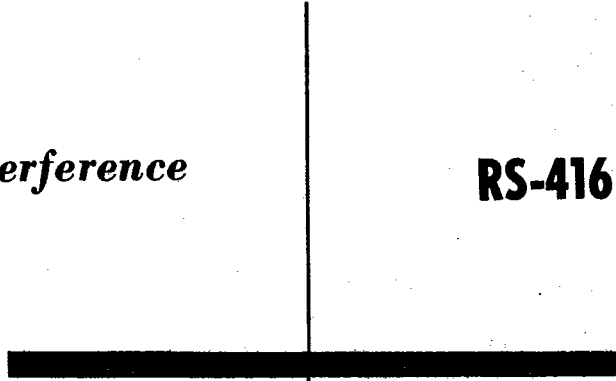
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American National Standards Institute

EIA STANDARD

Filters, Radio Interference

RS-416



March 1974

Engineering Department

ELECTRONIC INDUSTRIES ASSOCIATION

EIA RS-416

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Filters, Radio Interference

(From EIA Standards Proposal No. 1134-A, revision of Standards Proposal 1134, formulated under the cognizance of EIA Working Group P-3.3 on Interference Filters).

1. SCOPE

1.1 This Standard covers the general requirements for current-carrying filters, alternating-current (ac) and direct-current (dc), for use primarily in the reduction of broadband radio interference.

1.2 Portions of latest revisions of EIA Standard RS-186 (Standard Test Methods for Passive Electronic Component Parts), and of MIL-STD-220 (Method of Insertion Loss Measurements), when specified, form a part of this Standard.

2. STANDARD DESIGNATION

2.1 The EIA Standard designation shall consist of six constituent parts as illustrated below:

<u>XXX</u>	<u>XX22</u>	<u>D</u>	<u>D</u>	<u>1</u>	<u>A</u>
Class	Style	Current	Insertion-Loss	Terminal	Operating
2.1.1	2.1.2	Rating	Characteristic	Identification	Temperature
		2.1.3	2.1.4	2.1.5	Range
					2.1.6

2.1.1 Class designation signifies the component is a Radio Interference Filter made to the requirements of EIA Standard RS-416.

2.1.2 Style is identified by the two-letter symbol "XX" followed by a two-digit number. The letters identify radio-interference filters; the digits identify the general shape, voltage rating, and mounting of the case. Each style designation may include a family of case sizes.

2.1.3 The current rating is identified by a single letter in accordance with Table I.

Table I - Current Rating

Symbol	Rated Current	Symbol	Rated Current
A	0.1	L	20.0
B	0.3	M	30.0
C	0.5	N	55.0
D	1.0	P	70.0
E	1.5	R	100.0
F	2.0	S	150.0
G	3.0	T	200.0
H	5.0	U	300.0
J	7.0	V	500.0
K	10.0		

2.1.4 The insertion-loss characteristic is identified by a single letter in accordance with Table II.

Table II - Minimum Insertion-Loss Under Full Load

Per MIL-STD-220A

Symbol	Frequency in megahertz shown as column head and insertion-loss in column.							
	0.15	0.3	0.6	1	10	20	100	1,000
	dB	dB	dB	dB	dB	dB	dB	dB
A.....	40	50	60	60	60	60	60	60
B.....	50	60	60	60	60	60	60	60
C.....	40	40	40	40	40	40	--	--
D.....	45	60	80	80	80	80	70	70
E.....	60	70	80	80	80	80	80	80
F.....	80	80	80	80	80	80	80	80
G.....	20	20	20	40	40	40	40	--
W.....	For insertion-loss other than shown.							