

REVISIONS			
LT	DESCRIPTION	DATE	APPROVED
A	The "C" dimension for dash numbers 02 and 03 was changed from 2.625 to 2.062 inches.	17 Oct 83	Randy Larson
B	Added listing on QPL for MIL-F-15733/75 as an alternative for manufacturer eligibility. Added another source to suggested sources of supply. Editorial changes throughout.	3 Mar 86	Patrick Kyne
C	Editorial changes throughout. Removed a source of supply.	19 Sep 00	K.A. Cottongim

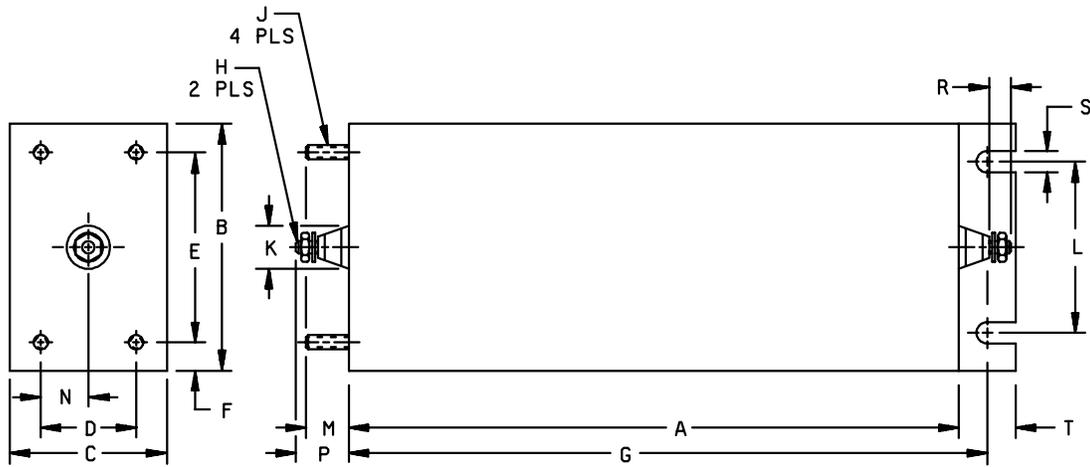
Previous Cage Code 14933 Superseded by 037Z3.

The original first page of this drawing has been replaced.

Prepared in accordance with MIL-STD-100

Selected item drawing

REV STATUS OF PAGES	REV	C	C	C	C	C	C	C										
	PAGES	1	2	3	4	5	6	7										
PMIC N/A	PREPARED BY Randy Larson							DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH										
Original date of drawing 27 June 1983	CHECKED BY Randy Larson							TITLE FILTERS, RADIO FREQUENCY INTERFERENCE										
	APPROVED BY Ivan R. Jones																	
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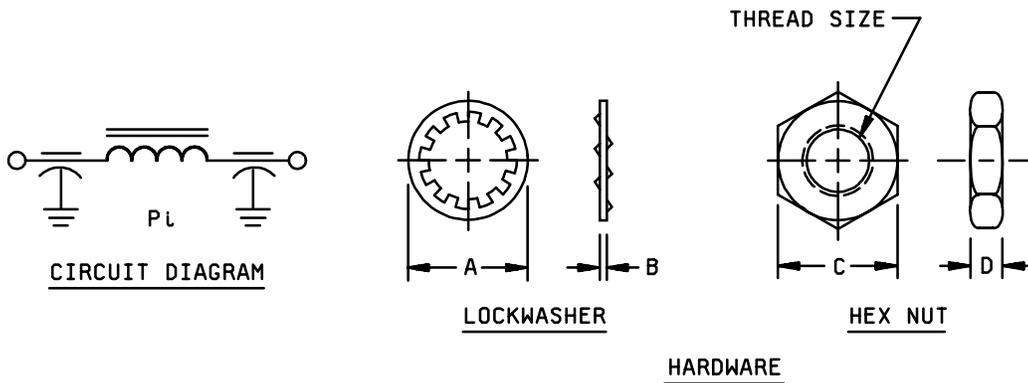


Dash No.	A ±.06 (1.52)	B ±.06 (1.52)	C ±.031 (.79)	D ±.015 (.38)	E ±.015 (.38)	F ±.031 (.79)	G ±.031 (.79)	H Thread	J Thread
01	8.00 (203.2)	2.00 (50.8)	2.000 (50.80)	1.250 (31.75)	1.250 (31.75)	.375 (9.53)	8.375 (212.73)	.164-32 UNC-2B	.164-32 UNC-2B
02	8.00 (203.2)	3.25 (82.6)	2.062 (52.37)	1.250 (31.75)	2.500 (63.50)	.375 (9.53)	8.375 (212.73)	.164-32 UNC-2B	.190-32 UNC-2B
03	12.00 (304.8)	3.25 (82.6)	2.062 (52.37)	1.250 (31.75)	2.500 (63.50)	.375 (9.53)	12.375 (314.33)	.164-32 UNC-2B	.190-32 UNC-2B
04	12.00 (304.8)	3.25 (82.6)	2.500 (63.50)	1.750 (44.45)	2.500 (63.50)	.375 (9.53)	12.375 (314.33)	.190-32 UNC-2B	.190-32 UNC-2B
05	12.00 (304.8)	3.00 (76.2)	3.000 (76.20)	2.250 (57.15)	2.250 (57.15)	.375 (9.53)	12.375 (314.33)	.250-20 UNC-2B	.190-32 UNC-2B

Dash No.	K Dia. Max	L ±.015 (.38)	M ±.062 (1.57)	N ±.0075 (0.19)	P Max	R Min	S	T	Weight (lbs) Max
01	.562 (14.27)	1.250 (31.75)	.562 (14.27)	0.625 (15.88)	.690 (17.53)	.290 (7.37)	.281 (7.14)	.750 (19.05)	2.6
02	.562 (14.27)	2.250 (57.15)	.562 (14.27)	0.625 (15.88)	.690 (17.53)	.290 (7.37)	.281 (7.14)	.750 (19.05)	3.8
03	.562 (14.27)	2.250 (57.15)	.562 (14.27)	0.625 (15.88)	.690 (17.53)	.290 (7.37)	.281 (7.14)	.750 (19.05)	6.0
04	.687 (17.45)	2.250 (57.15)	.562 (14.27)	0.875 (22.23)	.690 (17.53)	.290 (7.37)	.281 (7.14)	.750 (19.05)	6.7
05	.875 (22.23)	2.250 (57.15)	.687 (17.45)	1.125 (28.58)	1.25 (31.6)	.600 (15.24)	.281 (7.14)	.750 (19.05)	7.7

FIGURE 1. Case dimensions and circuit diagram.

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Hardware				
A	B	C	D	Thread size
±.005 (.13)	±.005 (.13)	±.010 (.25)	±.005 (.13)	
.330 (8.38)	.020 (.51)	.344 (8.74)	.125 (3.18)	.164-32 UNC-2B
.375 (9.53)	.022 (.56)	.375 (9.53)	.125 (3.18)	.190-32 UNC-2B
.472 (11.99)	.025 (.64)	.437 (11.10)	.156 (3.96)	.250-32 UNC-2B

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Circuit diagram is for information only.
4. Mounting hardware shall be supplied with filter.
5. Terminal hardware shall be supplied with filter.
6. Recommended mounting torque 192 oz-in maximum.
7. Recommended terminal torque as follows:

<u>Thread</u>	<u>Torque</u>
.164-32 UNC-2A	64 oz-in max.
.190-32 UNF-2A	96 oz-in max.
.250-20 UNC-2A	192 oz-in max.

FIGURE 1. Case dimensions and circuit diagram - Continued.

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3.4.2 Rated current. See table I.

3.4.3 Insertion loss. Insertion loss shall be in accordance with MIL-STD-220, at 25°C (see table I).

3.4.4 Dielectric withstanding voltage. Dielectric withstanding voltage shall be in accordance with MIL-PRF-15733.

3.4.5 Insulation resistance. The insulation resistance of the filter shall be 1,000 megohms minimum.

3.4.6 Voltage drop. The voltage drop shall be 1.15 volts ac (rms) maximum.

3.4.7 Capacitance to ground. Not applicable.

3.5 Environmental and mechanical requirements. The environmental and mechanical requirements shall be in accordance with MIL-PRF-15733. The following details and exceptions shall apply.

3.5.1 Terminal strength. Terminal strength shall be in accordance with MIL-PRF-15733 and method 211 of MIL-STD-202, test condition E.

TABLE I. Electrical characteristics.

Dash no. 83006	Rated current (amps) ac (rms) or dc	Minimum insertion loss (dB) in accordance with MIL-STD-220 1/										
		At +25°C										
		14 kHz	20 kHz	50 kHz	150 kHz	300 kHz	600 kHz	1 MHz	10 MHz	100 MHz	1 GHz	10 GHz
01	5	40	48	64	80	80	80	80	80	80	80	80
02	10	40	48	64	80	80	80	80	80	80	80	80
03	20	40	48	64	80	80	80	80	80	80	80	80
04	30	40	48	64	80	80	80	80	80	80	80	80
05	50	40	48	64	80	80	80	80	80	80	80	80

1/ Full-load insertion loss measurements shall be performed at frequencies between 100 kHz and 20 MHz inclusive; all other measurements shall be performed at no-load.

3.5.2 Salt spray (corrosion). Salt spray (corrosion) shall be in accordance with MIL-PRF-15733 and method 101 of MIL-STD-202, test condition B.

3.5.3 Shock (specified pulse). Shock shall be in accordance with MIL-PRF-15733 and method 213 of MIL-STD-202, test condition I.

3.5.4 Vibration, low frequency. Vibration shall be in accordance with MIL-PRF-15733 and method 201 of MIL-STD-202; low frequency vibration test only.

3.6 Marking. The marking shall include the PIN as specified in 1.2, the manufacturer's name or code, date code, voltage rating, current rating, and circuit diagram.

3.7 Manufacturer eligibility. To be eligible for listing as a suggested source of supply, a manufacturer shall be listed on the Qualified Products List for MIL-PRF-15733/2, /41, /55, /65, or /75 for at least one part or, perform first article inspection in accordance with the MIL-PRF-15733 qualification inspection requirements for listing as a suggested source of supply.

3.8 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.

3.9 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.10 Workmanship. Filters shall be processed in such a manner as to be uniform in quality and shall be free from cold soldering, corrosion, pits, dents, cracks, rough or sharp edges, misalignments, and other defects that will affect life, serviceability, or appearance. Cracks in glass seals are not allowed; however, minor meniscus crazing is acceptable.

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4. VERIFICATION

4.1 Qualification inspection. Qualification inspection is not required.

4.2 Conformance inspection.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of groups A, B, and C inspections of MIL-PRF-15733.

4.2.2 Certification. The acquiring activity, at its discretion, may accept a certificate of compliance with group B and group C requirements in lieu of performing group B and group C tests (see 6.2c).

4.2.3 Inspection of packaging. Inspection of packaging shall be in accordance with MIL-PRF-15733.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. Filters conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings, and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-15733, this drawing becomes obsolete and will not be used for new design. The QPL-15733 product shall be the preferred item for all applications.

6.2 Ordering data. The contract or purchase order should specify the following:

- a. Complete PIN (see 1.2).
- b. Requirements for delivery, and one copy of the quality conformance inspection data or certificate of compliance with each shipment of parts by the manufacturer.
- c. Whether the manufacturer performs the group B and group C tests or provides certification of compliance with group B and group C requirements.
- d. Requirements for notification of change of product to acquiring activity if applicable.
- e. Requirements for packaging and packing.

6.3 Replaceability. Filters covered by this drawing will replace the same commercial device covered by contractor-prepared specification or drawing.

6.4 Users of record. Coordination of this document for future revisions are coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: Defense Supply Center, Columbus, DSCC-VA, Post Office Box 3990, Columbus, OH 43216-5000 or by telephone (614) 692-0562.

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6.5 Suggested sources of supply. Suggested sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact DSCC-VA, Post Office Box 3990, Columbus, OH 43216-5000 or telephone (614-692-0562).

DSCC DRAWING 83006-	VENDOR FSCM NUMBER	SIMILAR VENDOR ^{1/} TYPE
01	13619	RF2925-5B
02	13619	RF2925-10B
03	13619	RF2925-20B
04	13619	RF2925-30B
05	13619	RF2925-50B

^{1/} CAUTION: Do not use this number for item acquisition and marking. The similar vendor type may not satisfy the performance requirements of this drawing.

VENDOR FSCM
NUMBER

13619

VENDOR NAME
AND ADDRESS

RFI Corporation
100 Pine Aire Drive
Bay Shore, LI, NY 11706
Plant: Same address

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