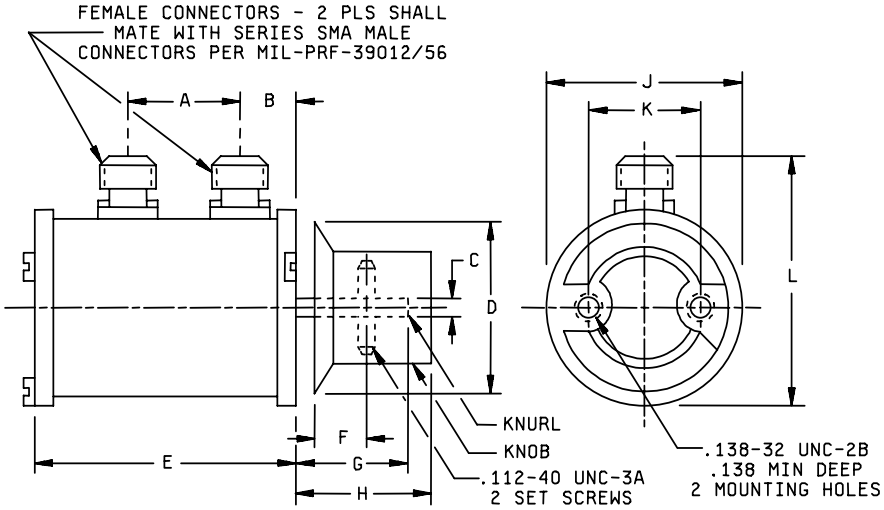
INCH-POUND
MIL-DTL-24215/8A
7 June 2002
SUPERSEDING
MIL-A-24215/8
22 February 1973

DETAIL SPECIFICATION SHEET

ATTENUATORS, VARIABLE COAXIAL, FREQUENCY RANGE DC TO 2 GHZ (SMA)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the attenuators described herein shall consist of this specification and MIL-DTL-24215.



	Inches		Millimeters	
	Max	Min	Max	Min
A	.766	.734	19.46	18.64
B	.391	.359	9.93	9.12
C	.141 dia	.109 dia	3.58	2.77
D	1.155 dia	1.145 dia	29.34	29.08
E	1.766	1.734	44.86	44.04
F	.354	.344	8.99	8.74
G	.766	.734	19.46	18.64
H	.910	.900	23.11	22.86
J	1.328	1.296	33.73	32.92
K	.766	.734	19.46	18.64
L	1.641	1.609	41.68	40.87

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Dimensions and configuration.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

REQUIREMENTS

Dimensions and configuration: See figure 1.

Operating frequency: See table I.

Insertion loss: See table I.

Input and output impedance: 50 ohms.

Voltage standing wave ratio (VSWR): See table I.

Attenuation range: See table I.

Attenuation accuracy: See table I.

Rotation angle between steps: 30°.

Input maximum average power (derate linearly to zero watts at 125°C): 0.5 watts @ 25°C.

Operating ambient temperature: -20°C to +125°C.

Final finish: All exposed surfaces and unexposed aluminum surfaces shall be chemically treated per MIL-C-5541 type 1, grade B, class 2.

Weight: 5 ounces maximum.

Calibrated knob: Rogan Bros. Inc. part number RB-67-1-SK, or equivalent.

Part number: See table I.

TABLE I. Electrical requirements.

Part number	Attenuation range (dB)	Accuracy	Insertion loss (max)	VSWR (max)	Frequency range
M24215/8-001	0 to 10 dB in 1 dB steps	±0.1 dB at .5 GHz ±0.3 dB at 1 GHz ±0.5 dB at 2 GHz	0.5 dB	1.15:1 at .5 GHz 1.15:1 at 1 GHz 1.25:1 at 2 GHz	DC to 2 GHz
-002	0 to 1 dB in 0.1 dB steps	±0.03 dB at .5 GHz ±0.05 dB at 1 GHz	1.0 dB	1.10:1 at .5 GHz 1.20:1 at 1 GHz	DC to 1 GHz

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

Review activities:
Army - AR, MI
Air Force - 99

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