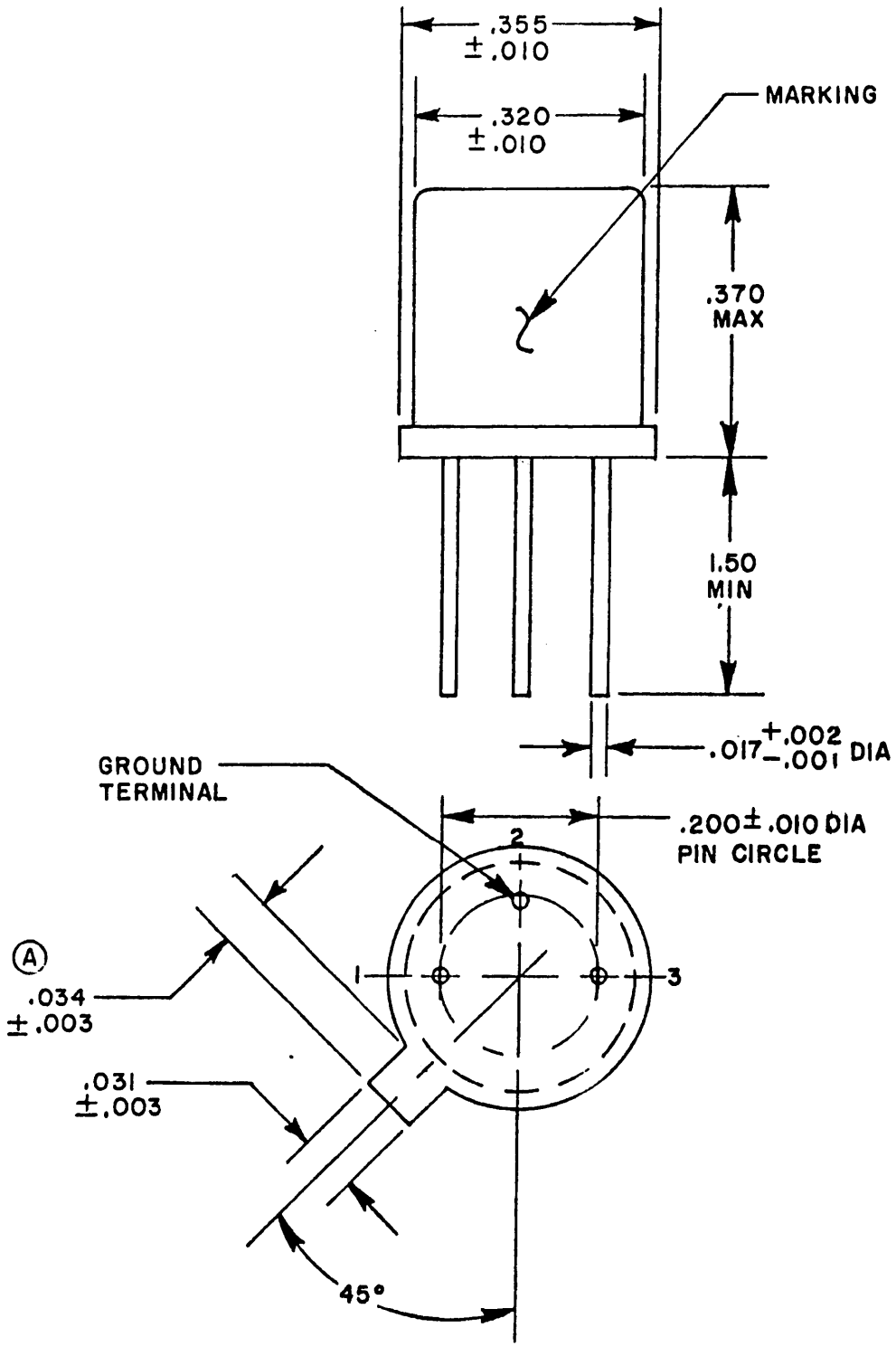
FED. SUP CLASS
5950



APPROVED 6 JUNE 1972 REVISED Ⓐ 20 November 1981

P.A AF-85 Other Cust	International interest	TITLE COILS, RADIO FREQUENCY, METAL ENCASED, FIXED, MINIATURE (IRON CORE) LT10K	MILITARY STANDARD MS 21358 (USAF)
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 4

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FO M ARE OBSOLETE. 5950 - F195

User activities: Army - Navy - Air Force - 19

Review activities: Army - Navy - Air Force - 11,17

This military standard is approved by the ENGRG AND TECH SPRT DIV (AFLC), Department of the AF and shall be used by that activity. All other military activities are required to employ this standard where suitable.

Ratings		
Style	LT10	
Grade	1	
Class	A	
Temperature rise	40°C at rated current	(A)
Operating temperature	-55°C to +105°C	
Dielectric withstanding Voltage (sea level)	100 volts rms for a minimum of 60 sec.	
Terminal pull	2 pounds	(A)
Altitude	50,000 feet	
Weight	3.0 grams maximum	
Duty cycle	Continuous	
Life expectancy	10,000 hours	

(A) Electrical characteristics (Initial)

Dash No. 1/	Type Designation	Inductance value µH ±5%	Test Freq. MHz	DC Res. Ohms Max.	Self Res. (min) MHz	Q (min)	Test Freq. Q MHz	I Max MA
44	LT10K	100	.5	5.1	7.5	85	1.5	191
45	LT10K	150	.5	6.6	5.5	85	1.5	168
46	LT10K	200	.5	9.5	4.5	85	.79	140
47	LT10K	300	.25	14	3.4	85	.79	115
48	LT10K	390	.25	16	2.9	85	.79	108
49	LT10K	500	.25	21	2.6	85	.79	94
50	LT10K	560	.25	23	2.5	85	.79	88
51	LT10K	680	.25	26	2.1	85	.79	85
52	LT10K	1000	.25	43	1.5	60	.79	65

1/ The dash number added to the MS military standard number constitutes the MS part number; for example, MS21358-44.

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Electrical Characteristics (Final)				
Inspection Group	Allowable variation from initial measurement		Allowable % from specified minimum value in Electrical Characteristics (initial) table	
	Inductance	DC resistance	Self-resonant frequency	Q
	Percent			
Qualification Inspection				
Group II	±2	---	----	-10
Group III	±5	±(3% +.001 ohm)	-8	-10
Group IV	±5	±(2% +.001 ohm)	-10	-15
Quality Conformance Inspection				
Group C Subgroup I	±2	---	----	-10
Subgroup II	±5	±(2% +.001 ohm)	-10	-15
Subgroup III	±5	±(3% +.001 ohm)	-8	-10

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INCHES	MM	INCHES	MM
.001	.03	.034	.86
.002	.05	.200	5.08
.003	.08	.320	8.13
.010	.25	.355	9.02
.017	.43	.370	9.40
.031	.79	1.50	38.10

NOTES:
1. DC resistance shall be the last measurement taken in the electrical characteristics test sequence.
2. Leads - Type K of MIL-STD-1276.
3. Case - Metal with nickel alloy tinned. Hermetically sealed.
4. Insulation resistance shall be 10,000 megohms minimum at 100 V D.C. (Terminals 1 and 3 to case).
5. When measuring inductance connection shall be made within 1/8 inch of the header.
6. Self resonance frequency - pin 2 shall be ungrounded.
7. The maximum inductance change with temperature shall not exceed ±2% over the range of -55°C + 105°C when measured at the test frequency.
8. Vibration - Method 204, Test condition A. (The parts shall be mounted by means of insertion of the leads in a base with appropriate solder holes, clearance between base and test unit shall be less than .062 inch.)
9. Shock - Method 213, Test condition I. (The parts shall be mounted by means of insertion of the leads in a base with appropriate solder holes, clearance between base and test unit shall be less than .062 inch.)
10. Moisture resistance - Method 106. Polarization not applicable. Insulation resistance shall be not less than 1000 megohms after test.
11. Dimensions are in inches.
12. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
13. Referenced document shall be the issue in effect on date of invitation for bid.
14. This standard take precedence over the procurement specification referenced herein.

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DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE. 5950-F195

case shall be referred for further processing in accordance with DOD Directive