

Synchro, Control Transformer, Type 11CT4E

FSC 5990

RATIONALE

This Revision consists of a 5 (five) year review, which provides updates to current format and references

NOTICE

This specification is approved for use by all Departments and Agencies of the Department of Defense. The requirements for acquiring the Synchros described herein shall consist of this specification and the latest issue of AS20708.

TABLE 1 – REQUIREMENTS

REQUIREMENT	VALUE	UNIT	TOLERANCE
Frequency	400	Hz	± 1 %
Primary Voltage	78	Volts	± 1 %
Primary Current	18.0	Milliamps	Maximum
Primary Power	0.24	Watts	Maximum
Impedance:			
Zso	4350 - 5700	Ohms	Min. – Max.
Zrs	585 - 700	Ohms	Min. – Max.
Impedance Angle:			
Zso	77.3 - 83.5	Degrees	Min. – Max.
Zrs	22.0 - 32.0	Degrees	Min. – Max.
Transformation Ratio	0.735	-----	± 2 %
Phase Shift (Lead)	5.0	Degrees	± 1.0
Electrical Error	7.0	Minutes	Maximum
Null Voltage:			
Total	60.0	Millivolts	Maximum
Fundamental	32.0	Millivolts	Maximum
Friction Torque	0.07	Ounce – Inches	Maximum
Radial Play	0.0006	Inches	Maximum
End Play	0.0010	Inches	± 0.0005
Temperature Rise	10.0	Degrees - C	Maximum

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