



AEROSPACE STANDARD	AS20708™/21	REV. B
	Issued 1999-07 Revised 2011-02 Stabilized 2016-07 Superseding AS20708/21A	
Synchro, Control Transformer, Type 15CT6D		
FSC 5990		

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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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	60	Hz	± 1 %
Primary Voltage	78	Volts	± 1 %
Primary Current	13.0	Milliamps	Maximum
Primary Power	0.25	Watts	Maximum
Impedance:			
Zso	6000 – 7500	Ohms	Min. – Max.
Zrs	1300 – 1650	Ohms	Min. – Max.
Impedance Angle:			
Zso	78.0 - 82.0	Degrees	Min. – Max.
Zrs	13.0 - 18.0	Degrees	Min. – Max.
Transformation Ratio	0.735	-----	± 2 %
Phase Shift (Lead)	9.0	Degrees	± 2.0
Electrical Error	6.0	Minutes	Maximum
Null Voltage:			
Total	65.0	Millivolts	Maximum
Fundamental	45.0	Millivolts	Maximum
Friction Torque	0.05	Ounce – Inches	Maximum
Radial Play	0.0006	Inches	Maximum
End Play	0.0010	Inches	± 0.0005
Temperature Rise	10.0	Degrees - C	Maximum