



AEROSPACE STANDARD	AS20708™/2	REV. B
	Issued 1999-07 Revised 2011-02 Stabilized 2016-06 Superseding AS20708/2A	
Synchro, Control Transmitter, Type 11CX4E		
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	400	Hz	$\pm 1\%$
Primary Voltage	115	Volts	$\pm 1\%$
Primary Current	31.0	Milliamps	Maximum
Primary Power	0.59	Watts	Maximum
Impedance:			
Zro	3720 - 4700	Ohms	Min. – Max.
Zss	410 - 500	Ohms	Min. – Max.
Impedance Angle:			
Zro	80.0 - 84.0	Degrees	Min. – Max.
Zss	17.0 - 26.0	Degrees	Min. – Max.
Transformation Ratio	0.783	-----	$\pm 2\%$
Phase Shift (Lead)	4.5	Degrees	± 1.5
Electrical Error	7.0	Minutes	Maximum
Null Voltage:			
Total	75.0	Millivolts	Maximum
Fundamental	45.0	Millivolts	Maximum
Friction Torque	0.07	Ounce – Inches	Maximum
Radial Play	0.0006	Inches	Maximum
End Play	0.0010	Inches	± 0.0005
Temperature Rise	20.0	Degrees - C	Maximum