

## AEROSPACE STANDARD

**SAE** AS20708/67

Issued

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Synchro, Torque Differential Receiver, Type 31TDR6B

FSC 5990

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## SAE AS20708/67

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 MIL-S-20708.

TABLE I. Requirements.

Requirement	Value	Ųnit	Tolerance
Frequency	60	Hz	±1%
Primary Voltage	78	volts	±1%
Primary Current	748.0	milliamps	maximum
Primary Power Impedance	7.8	watts	maximum
Ζp		ohms (	minmax.
Zd Impedance Angle:		ohms	minmax.
Żp		degrees	minmax.
Zd		degrees	minmax.
Transformation Ratio	1.154		±2%
Phase Shift (Lead)	6.5	degrees	maximum
Electrical Error	10.0	Charles and a second	maximum
Receiver Error	48.0	minutes	maximum
Synchronizing Time:	<i>h</i> .		
30° ±2°	1.0 (CM)	seconds	maximum
Synchronizing Time:	7.	·	
177° ±2°	2.0	seconds	maximum
Torque Gradient	0.30	ounce-inches	minimum
Dealt Diese	(¿C)	per degree	
Radial Play	0.0008	inches	mumixem
End Play	0.0030	inches	±0.0020
Temperature Rise Variation of Voltage	18.0	degrees (C)	maximum
(+10%) and Freq. (-5%)		watts	maximum