

Synchro, Control Transmitter, Type 15CX4F

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 SAE AS20708.

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TABLE 1 – REQUIREMENTS

REQUIREMENT	VALUE	UNIT	TOLERANCE
Frequency	400	Hz	±1%
Primary Voltage	115	volts	±1%
Primary Current	100.0	milliamps	maximum
Primary Power	1.40	watts	maximum
Impedance:			
Zro	1800	ohms	min.-max.
Zss	1.5	ohms	min.-max.
Impedance Angle:			
Zro	84.5	degrees	min.-max.
Zss	25.0	degrees	min.-max.
Transformation Ratio	0.1026	----	±2%
Phase Shift (Lead)	2.5	degrees	±1.5
Electrical Error	6.0	minutes	maximum
Null Voltage:			
Total	25.0	millivolts	maximum
Fundamental	12.0	millivolts	maximum
Friction Torque	0.05	ounce-inches	maximum
Radial Play	0.0006	inches	maximum
End Play	0.0010	inches	±0.0005
Temperature Rise	20.0	degrees (C)	maximum

TABLE 2 – MILITARY PART NUMBER VARIANT CHARACTERISTICS

Military Part No. <sup>1/</sup>	A ± .010	B ± .010	G Maximum	Shaft Style	Terminal End	U <sup>2/</sup> + .0000 - .0002
M20708/131-01F	.555	.500	1.640	Splined	Terminal Board	.1872
M20708/131-02F	↓	↓	1.640	Plain & Slotted	Terminal Board	↓
M20708/131-03F	↓	↓	1.378	Plain & Slotted	Wire Leads	↓

<sup>1/</sup> Military Part number M20708/131-01F shall be the NATO standard.

<sup>1/</sup> The suffix letter following the numerical dash number corresponds to the latest modification letter in the type designation.

<sup>2/</sup> The tolerance for plain and slotted shaft diameters is +.0000 and -.0005.