

MIL-S-20708/504(OS)

<u>Requirement</u>	<u>Value</u>	<u>Unit</u>	<u>Tolerance</u>
Frequency	60	Hz	±1%
Primary Voltage	90	volts	nominal
Primary Current	20-25	milliamps	min.-max
Primary Power	0.7	watts	maximum
Impedance			
Zso	3611	ohms	nominal
Zrs	1423	ohms	nominal
Impedance Angle			
Zso	70.1	degrees	nominal
Zrs	15.9	degrees	nominal
Transformation Ratio	0.735	-----	±2%
Phase Shift	20.0 (lead)	degrees	±2.0
Electrical Error	6.0	minutes	maximum
Null Voltage			
Total	90.0	millivolts	maximum
Fundamental	60.0	millivolts	maximum
Friction Torque	0.05	ounce-inches	maximum
Radial Play	0.0004	inches	maximum
End Play	0.0015	inches	maximum
Temperature Rise	10.0	degrees (C)	maximum

Part number: M20708/504 plus applicable dash number from Table I.

TABLE I

DASH NO.	SHAFT DIAMETER	SHAFT STYLE	TERMINAL END	L' DIMENSION TO STOP ON SHAFT	L REFERENCE FREE SHAFT LENGTH
-001	.1872	Splined	Terminal Board	.555 ± .010	.500 ± .010
002	.1872	Smooth	Terminal Board	.555 ± .010	.500 ± .010
003	.1872	Smooth	Leads	.555 ± .010	.500 ± .010

NOTES

1. This component used in Surface Missile System (SMS), Missile Fire Control System (MFCS), MK 115
2. This synchro is for replacement purposes only and is not recommended for new design.

Custodian.
Navy-OS

Preparing Activity
Navy-OS

Project Number
5990-N063

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval
No 22-R255

INSTRUCTIONS The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity.

DOCUMENT IDENTIFIER AND TITLE

MIL-S-20708/504(OS), Synchros, Control Transformer, Type 15CT6B

NAME OF ORGANIZATION AND ADDRESS

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

☐ DIRECT GOVERNMENT CONTRACT ☐ SUBCONTRACT

1 HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2 COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID

3 IS THE DOCUMENT RESTRICTIVE?

☐ YES ☐ NO (If "Yes", in what way?)

4 REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO

DATE

DD FORM 1426
1 JAN 72

REPLACES EDITION OF 1 JAN 68 WHICH MAY BE USED

S/N 0102-014-1802

U.S. GOVERNMENT PRINTING OFFICE: 1972-714 863/3404 21

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POSTAGE AND FEES PAID



OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

Commander
Naval Sea Systems Command
Engineering Support Division
ATTN. SEA 605
Department of the Navy
Washington, DC 20360

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