

DATE Nov. 23/67

SH. _____ OF _____

COMPILED BY _____

TMC SPECIFICATION NO. S 10167

TITLE: PREPRODUCTION INSPECTION FOR THIRTY-TWO

JOB

APPROVED *W.A.J.*

OUTPUT MULTICOUPLER

- References: (1) MIL-E-16400D (NAVY) para 4.3
(2) SHIPS-C-4297

Preproduction inspection for thirty-two output multicouplers shall include the following tests:

<u>Subject</u>	<u>Reference</u>	<u>Paragraph</u>	<u>TMC Specification</u>
Surface examination	(1)	4.5.1	S10166-1
Operating test	(1)	4.5.2 (as specified by SHIPS-C-4297 para 4.3.1 operating tests shall include the following:	
Input and Output Impedance	(2)	3.2.4 (amended by RCA Victor A1815403 para 3.1)	S10166-2
Input filter	(2)	3.3.1 (not required as per RCA Victor A1815403 para 3.7)	
Gain for each output	(2)	3.3.2 @ 2.5, 8, 16 28 MHz	S10166-4
Overload	(2)	3.3.3	S10166-5
Radiation	(2)	3.3.4	S10166-6
Cross-talk isolation	(2)	3.3.5	S10166-7
Spurious responses	(2)	3.3.6	S10166-8
Noise figure	(2)	3.3.7	S10166-9
Power input filter	(2)	3.3.8	S10166-10
Phase shift single	(2)	3.3.9 (not required as per RCA Victor A1815403 para 3.8)	
Weights and dimensions	(1)	4.5.3	S10166-12
Supply line voltage and frequency	(1)	4.5.4	S10166-13
Heat test	(1)	4.5.6	S10166-15
Temperature	(1)	4.5.8	S10166-17
Humidity	(1)	4.5.9	S10166-18
Power	(1)	4.5.10	S10166-19
Controls and control circuits	(1)	4.5.13	S10166-22
Accelerated life test	(1)	4.5.14	S10166-23
Shock, vibration, and inclination	(1)	4.5.15 (not required as per SHIPS-C-4297 para 4.3)	
Salt spray test	(1)	4.5.16 (not required as per RCA Victor A1815402 para 3.5)	
Reliability	(1)	4.5.18 (as amended by RCA Victor A1815402 para 3.4)	S10166-26

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ERRATA

SPURIOUS RESPONSE - S10166-8

Reference (2) add "as amended by RCA Victor A1815403

para 3.9 "3.3.6 Spurious responses" line 4 change 70 db
to read 65 db.

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TEST RESULTS

S10166-1	Surface examination:	examination	_____
S10166-2	Input and Output Impedance:	1.5:1 V.S.W.R. maximum	_____
S10166-4	Voltage gain:		_____
S10166-5	Overload:		_____
S10166-6	Radiation:	55db attenuation minimum	_____
S10166-7	Crosstalk isolation:	40db attenuation minimum	_____
S10166-8	Spurious responses:		_____
S10166-9	Noise figure:	7db maximum	_____
S10166-10	Power input filters:	40db attenuation minimum	_____
S10166-12	Weights and dimensions:	examination	_____
S10166-13	Supply line voltage and frequency:	Limits: Voltage - lower 108 volts upper 122 volts Frequency - lower 48 cycles upper 62 cycles	_____ _____ _____ _____
S10166-15	Heat:	no leakage	_____
S10166-17	Temperature:	no internal alignment or adjustment	_____
S10166-18	Humidity:	performance examination	_____ _____

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S10166-19	Power:	consumption power factor	_____ _____
S10166-22	Controls and control	circuits: examination	_____ _____
S10166-23	Accelerated life:	performance	_____ _____
S10166-26	Reliability:	report attached	_____ _____

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