

DATE Nov. 23/67

SH. _____ OF _____

COMPILED BY

J. S. J.

TMC SPECIFICATION NO. S 10169

TITLE: PRODUCTION CONTROL INSPECTION FOR THIRTY-TWO

JOB

APPROVED

OUTPUT MULTICOUPLERS

- References: (1) MIL-E-16400D (NAVY) para 4.4.3
 (2) SHIPS-C-4297

Production control inspection for thirty-two multicouplers shall include the following tests:

<u>Subject</u>	<u>Reference</u>	<u>Paragraph</u>	<u>TMC Specification</u>
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
Power	(1)	4.5.10	S10166-19
Controls and control circuits	(1)	4.5.13	S10166-22
Reliability	(1)	4.5.18 (amended by RCA Victor A1815403 para 3.4)	S10166-26

In addition the following tests required by SHIPS-C-4297 shall be included:

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 coupler)	(2)	3.3.9 (not required as per RCA Victor A1815403 para 3.8)	

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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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WAG

OUTPUT MULTICOUPLERS

TEST RESULTS

- 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
- S10166-19 Power:
consumption
power factor
- S10166-22 Controls and control circuits:
examination
- S10166-26 Reliability:
Report attached