

DATE July 24/68	<b>TMC SPECIFICATION NO. S10163</b>	
SH. _____ OF _____	TITLE: PREPRODUCTION INSPECTION FOR EIGHT- JOB	
COMPILED BY _____	OUTPUT MULTICOUPLERS	
APPROVED <i>[Signature]</i>		

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

Preproduction inspection for eight-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 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 A1815402 para 3.1)	S10166-2
Input filter	(2)	3.3.1	S10166-3
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	S10166-11
Weights and dimensions	(1)	4.5.3	S-10166-12
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)	S10166-24

DATE <u>Nov. 23/67</u>	<b>TMC SPECIFICATION NO. S 10163</b>	
SH. _____ OF _____		
COMPILED BY <u>J.P.</u>	TITLE <u>REPRODUCTION INSPECTION FOR EIGHT OUTPUT</u>	JOB _____
APPROVED <u>[Signature]</u>	MULTICOUPLERS	

TEST RESULTS

S10166-1	Surface examination :	examination	_____
S10166-2	Input and Output Impedance:	1.5:1 V.S.W.R. maximum	_____
S10166-3	Input filters:	-30db minimum	_____
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	_____
S10166-11	Phase characteristics:	$\pm 2$ degrees phase difference maximum	_____
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	_____ _____ _____ _____

DATE Nov. 23/67

TMC

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COMPILED BY

*H. J. J.*

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JOB

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MULTICOUPLERS

S10166-15	Heat:	no leakage	_____
S10166-17	Temperature:	no internal alignment or adjustment	_____
S10166-18	Humidity:	Performance Examination	_____ _____
S10166-19	Power:	Consumption Power factor	_____ _____
S10166-22	Controls and control circuits:	Examination	_____
S10166-23	Accelerated life:	Performance	_____
S10166-24	Reliability:	Report attached	_____