

DATE _____
 SH. 1 OF 3
 COMPILED BY _____

TMC SPECIFICATION NO. S 10019

TITLE: CROSS MOD. GAIN & NOISE AMC 6-5 JOB 643

APPROVED _____

SERIAL # _____

FREQUENCY MC/s				J ₁	J ₂	J ₃	J ₄	J ₅	J ₆	Av.
A	B	ORDER	RESULT							
3.9	10.3	b - 2a	2.5							
		b - a	6.4							
		a + b	14.2							
		2b - a	16.7							
		2a + b	18.1							
		a + 2b	24.3							
3.9	7.5	b - a	3.6							
		2b - a	11.1							
		a + b	11.4							
		2a + b	15.3							
		a + 2b	18.9							
		3a + b	19.2							
		2a + 2b	22.8							
		3a + 2b	26.7							
3.1	6.9	b - a	3.8							
		a + b	10.0							
		2a + b	13.1							
		3a + b	16.2							
		a + 2b	16.9							
		3a + 2b	23.1							
		a + 3b	23.8							
		2a + 3b	26.9							
1.45	0.85	a + b	2.3							
		2a + b	3.75							
		2a - b	2.05							
		3a + b	5.2							
GAIN MEASUREMENTS										
FREQUENCY Mc/s										
2.0										
2.5										
4										
8										
12										
16										
24										
30										

DATE
SH. 2 OF 3
COMPILED BY

TMC SPECIFICATION NO. S-10 019

TITLE: PERFORMANCE CHECKS

JOB

APPROVED

ANTENNA MULTICOUPLER AMC-6-5

SHEET - 2

NOISE FREQUENCY Mc/s.	Indicated M/A	Comb. N.F.	Receiver N.F.	Gain M.C.	Noise M.C.	Correction Factor.						
2												
25												
4												
8												
16												
24												
28												
30												
ATTENUATION BACK TO FRONT	J ₁	J ₂	J ₃	J ₄	J ₅	J ₆						
2.5	101.2	103	112	>110	>110	>110						
4	86	86	86	86	86	87						
8	76	77	78	78	78	78						
16	70	70	70	71	71	72						
24	62	63	64	65	68	68						
28	58	60	61	61	61	60						
30												
ATTENUATION JACK TO JACK	J ₁	J ₂	J ₃	J ₄	J ₅	J ₆						
FREQUENCY-Mc/s.	2.5	2.8	2.5	2.8	2.5	2.8	2.5	2.8	2.5	2.8	2.5	2.8
J ₁	X	X	72	50	72	50	72	50	72	50	72	50
J ₂	72	52	X	X	73	52	73	54	73	54	73	54
J ₃	74	50	75	50	X	X	74	50	74	50	74	50
J ₄	75	52	77	54	76	56	X	X	75	51	77	52
J ₅	75	51	74	54	75	53	75	51	X	X	74	54
J ₆	74	52	74	53	74	54	74	51	74	56	X	X

REMARKS.

DATE
SH. 3 OF 3
COMPILED BY

TMC SPECIFICATION NO. S-10019

TITLE: PERFORMANCE CHECKS JOB

APPROVED ANTENNA MULTICOUPLER AMC-6-5 SHEET-3

INPUT IMPEDANCE FREQUENCY Mc/s.	X	R	$\frac{X}{F}$	$\frac{X}{Z_0}$	$\frac{R}{Z_0}$	VSWR.
25						
4						
8						
16						
24						
28						
30						
OUTPUT IMPEDANCE FREQUENCY — Mc/s.	X	R	$\frac{X}{F}$	$\frac{X}{Z_0}$	$\frac{R}{Z_0}$	VSWR.
25	+30	65	+12	+ .17	.93	1.2
4	+10	66	+2.5	+ .03	.94	1.1
8	-40	62	-5	+ .07	.89	1.1
16	-150	48	-94	- .13	.69	1.5
24	-170	27	-7.1	-10	.39	2.6
28	+60	18	+2.1	+ .03	.36	3.8
30	+146	12	+4.7	+ .07	.17	55

REMARKS: