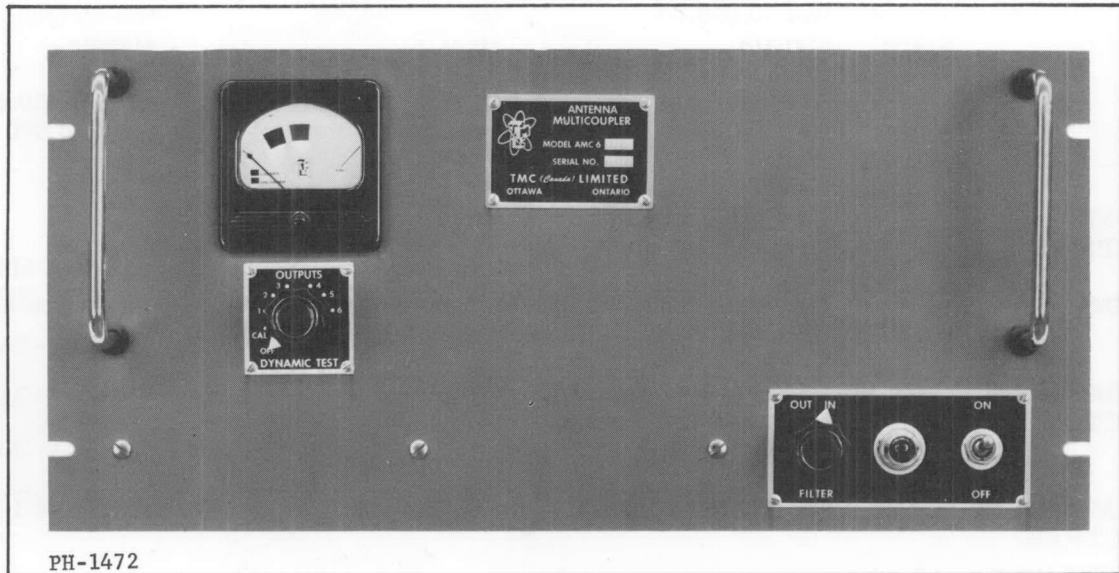


SALES SERVICE BULLETIN NUMBER 8001

Antenna Multicouplers Models AMC/LMC

CU-5013/SRR

CU-5032/SRR



PH-1472

The TMC series of Antenna Multicouplers are broadbanded electronic coupling devices designed to couple a single receiving antenna to a number of receivers. The Model LMC covers the frequency range 100 kc to 2 mc while the several Models AMC cover the range 2 to 30 mc. All units provide an effective match with a minimum of interaction between receivers, and a minimum of intermodulation and cross modulation. Use of specially designed wideband transformers provide uniform gain, low noise figures, and high attenuation of spurious signals.

Multicoupler operational requirements are divided into two major categories, the first requiring maximum sensitivity and low system noise; the second calling for maximum overload and modulation characteristics in the face of high intensity RF signals. The Models AMC-6-2 (CU-5013/SRR) and AMC-6-3 satisfy the first requirement, and the Models AMC-6-5 (CU-5032/SRR) and LMC-10 satisfy the second.

Cascade operation may be used to provide 36 outputs from a single antenna (Models AMC) or 100 outputs (Model LMC) without serious degradation.

The Models AMC-6-5 and LMC-10 feature an internal test oscillator and metering circuit for dynamically checking the operation of the unit.

The Models AMC-6-2, AMC-6-3 and AMC-6-5 are single units. The Model LMC-10 is composed of two units, Model DA-101, Distributive Amplifier and Model PS-7, Power Supply.

Models AMC/LMC

TECHNICAL SPECIFICATIONS:

	<u>AMC-6-2, AMC-6-3</u>	<u>AMC-6-5</u>	<u>LMC-10</u>
FREQUENCY RANGE:	2 - 30 mc	2 - 30 mc	100 kc - 2 mc
GAIN:	Nominally 10 db	Nominally 3 db	Nominally 4 db
NOISE FACTOR:	Less than 8 db	Less than 10 db	Less than 7 db
INTERMODULATION CHARACTERISTICS:			
2nd Order A+B=C	At least 55 db for two 10,000 uv signals	At least 55 db for two 250,000 uv signals	At least 50 db for two 250,000 uv signals
3rd Order A+2B=C	At least 55 db for two 10,000 uv signals	At least 55 db for two 250,000 uv signals	At least 50 db for two 250,000 uv signals
HARMONIC DISTORTION:	Negligible at test levels stated above	Same	Same
INPUT IMPEDANCE:	Nominally 70 ohms unbalanced. Adaptors to other impedances and/or balanced lines available on special order.		
INPUT IMPEDANCE CHARACTERISTICS:	VSWR of less than 1.8 to 1 when referred to nominal impedance	Same	Same
INPUT AND OUTPUT CONNECTIONS:	See Table I	See Table I	See Table I
OUTPUT IMPEDANCE:	Nominally 70 ohms unbalanced. Adaptors to other impedances and/or balanced lines available on special order.		
BACK TO FRONT RATIO:	Average 70 db	Average 70 db	Average 60 db
ISOLATION BETWEEN CONNECTED RECEIVERS:	Average 60 db	Average 60 db	Average 55 db
UNIFORMITY OF OUTPUT SIGNALS:	The minimum signal voltage from any one of the output jacks will not be less than 75% of the output voltage from any other jack.	Same	Same
TUBE & SEMI-CONDUCTOR COMPLIMENT:	2 ea. 6J4 RF Preamp. 6 ea. 6AH6 Power Amp. 1 ea. 5U4G Rectifier 2 ea. OB2 Volt. Reg.	2 ea. 5842 RF Preamp. 12 ea. 6AM5 Power Amp. 1 ea. 5U4GB Rectifier 1 ea. OA2 Volt. Reg. 1 ea. 6DJ8 Osc.	2 ea. 5842/417A Preamp. 20 ea. 6C4 Cath Fol. 1 ea. 6922/6DJ8 Osc. 8 ea. 1N1084 Rect. 11 ea. 1N55A RF Rect. 1 ea. 1N2843B Volt. Reg.
PRIMARY POWER REQUIREMENTS:	115/230 volts 50-60 cps single phase 90 watts	Same Same Same 150 watts	Same Same Same 120 watts

	<u>AMC-6-2, AMC-6-3</u>	<u>AMC-6-5</u>	<u>LMC-10</u>
SIZE:	8 3/4" x 19" x 11" o/a	8 3/4" x 19" x 12" o/a	10 1/2" x 19" x 11 1/4" o/a
WEIGHT:	49 pounds	51 pounds	43 pounds
MOUNTING:	Standard 19" rack	Same	Same
SHIPPING DATA:	1 Box 72 lbs. 3 cu. ft.	1 Box 74 lbs. 3 cu. ft.	2 Boxes 89 lbs. 5 cu. ft.
COMPONENTS AND CONSTRUCTION:	All equipment is manufactured in accordance with JAN/MIL specifications wherever practicable.		

TABLE I

<u>TMC MODEL</u>	<u>MILITARY NOMENCLATURE</u>	<u>QUAN. OUTPUTS</u>	<u>LOCATION</u>	<u>TMC INSTRUCTION BOOK</u>	<u>FSN</u>
AMC-6-2	CU-5013/SRR	6	Front Panel	IN-155	
AMC-6-3	None	6	Rear Apron	IN-155	
AMC-6-5	CU-5032/SRR	6	Rear Apron	IN-501	
LMC-10	None	10	Rear Apron	IN-502	

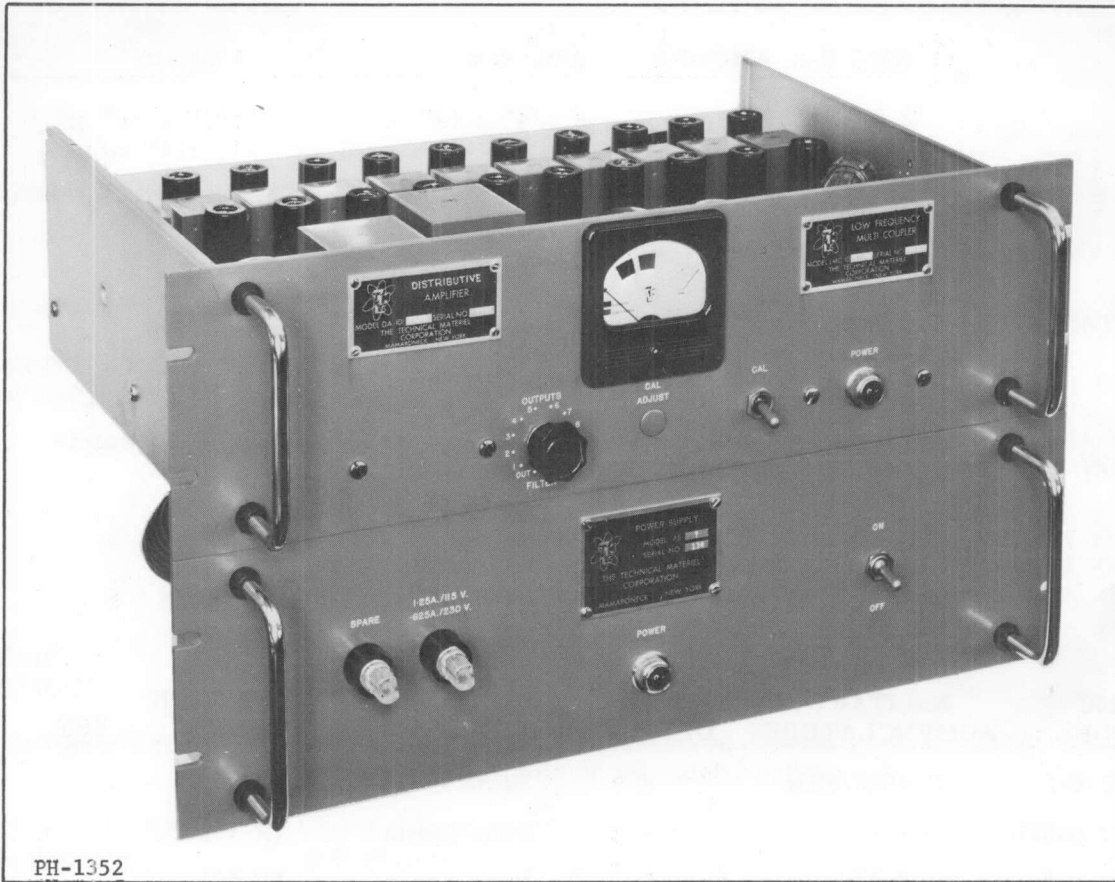
All units supplied with type UHF input and output connectors.

To convert the Model AMC-6-2 to QDS input and output connectors, order seven (7) adaptors, TMC part number SA-106.

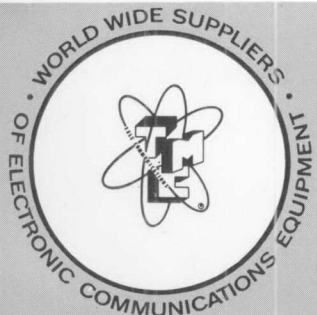
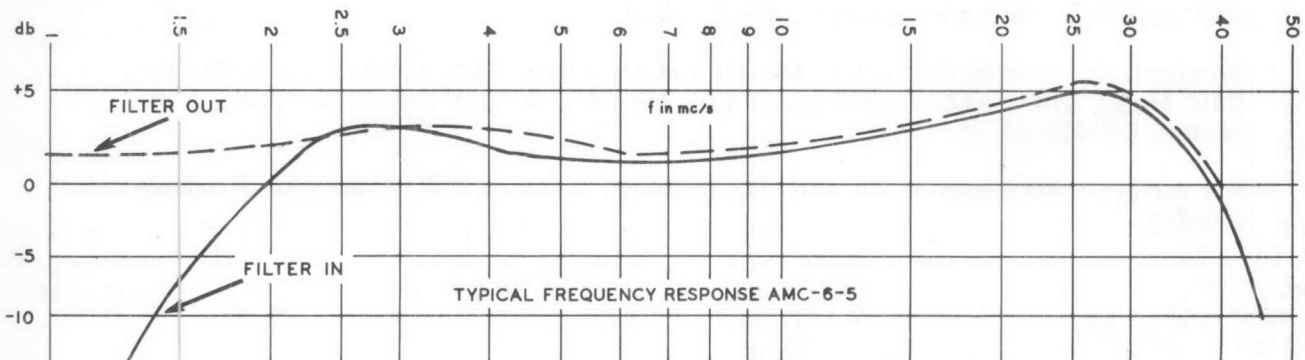
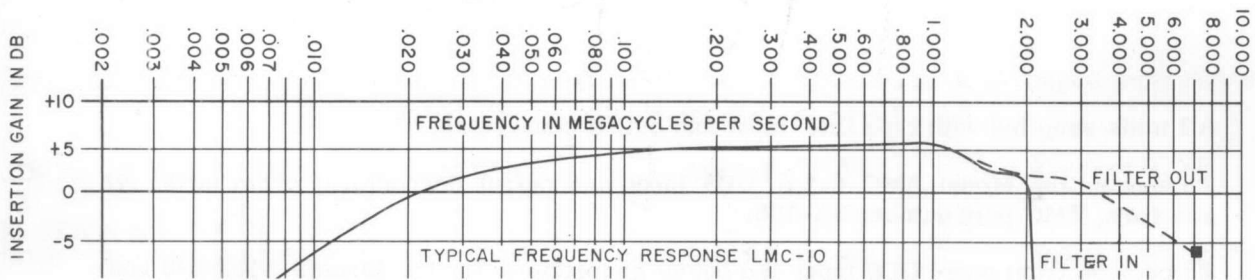
To provide front panel QDS input and output connections for the Models AMC-6-3 and AMC-6-5, order the TMC Model QDP-7A1X7 patch panel with seven (7) interconnecting cables, TMC part number CA-480-32-24.

To similarly provide the Model LMC-10 with front panel QDS connections, order the TMC Model QDP-7A1X11 patch panel with eleven (11) interconnecting cables, TMC number CA-480-32-24.

For further information on RF patching systems, refer to TMC Connector Products Catalog.



TMC Model LMC-10



The TECHNICAL MATERIEL CORPORATION

700 FENIMORE ROAD MAMARONECK, NEW YORK

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TEPEI
MAMARONECK, N.Y.

and Subsidiaries

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