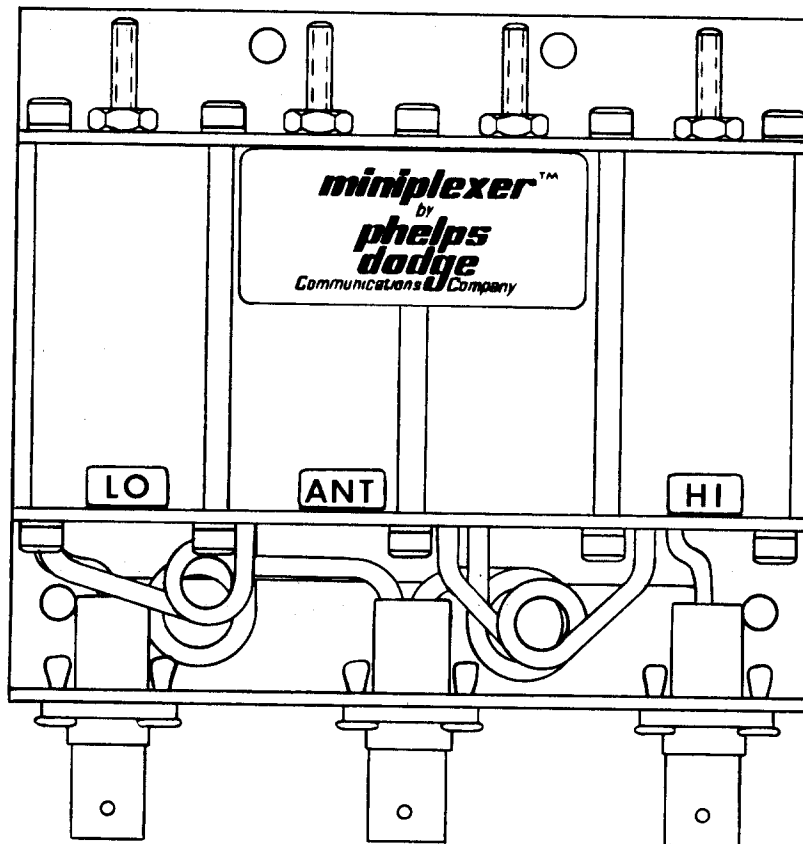


MINIPLEXER™

4 CAVITY UHF DUPLEXER PD-7540/PD-7640
6 CAVITY UHF DUPLEXER PD-7560/PD-7660

The MINIPLEXER™ is a compact duplexer which achieves a new standard of miniaturization. With its small size, it solves the pressing problem of space in a wide variety of applications including car telephones, portable and vehicular repeaters and repeater base stations. Design and construction features include solid shield copper jacketed intercabling for low loss, extruded aluminum cavities for durability and BNC connectors furnished as standard.

The UHF MINIPLEXER™ series is available in four or six cavity versions in two bands. The PD-7540 and PD-7560 are used for 406-440 MHz and the PD-7640 and PD-7660 are used for 430-470 MHz. Available for either 5 or 10 MHz Tx-Rx spacing, the PD-7540 and PD-7640 offer 50 dB minimum isolation between transmit and receive frequencies and the PD-7660 and PD-7560 offer 65 dB minimum isolation. All units are easily field-tunable.



PD-7540/PD-7640 4 Cavity MINIPLEXER™ (shown full size)

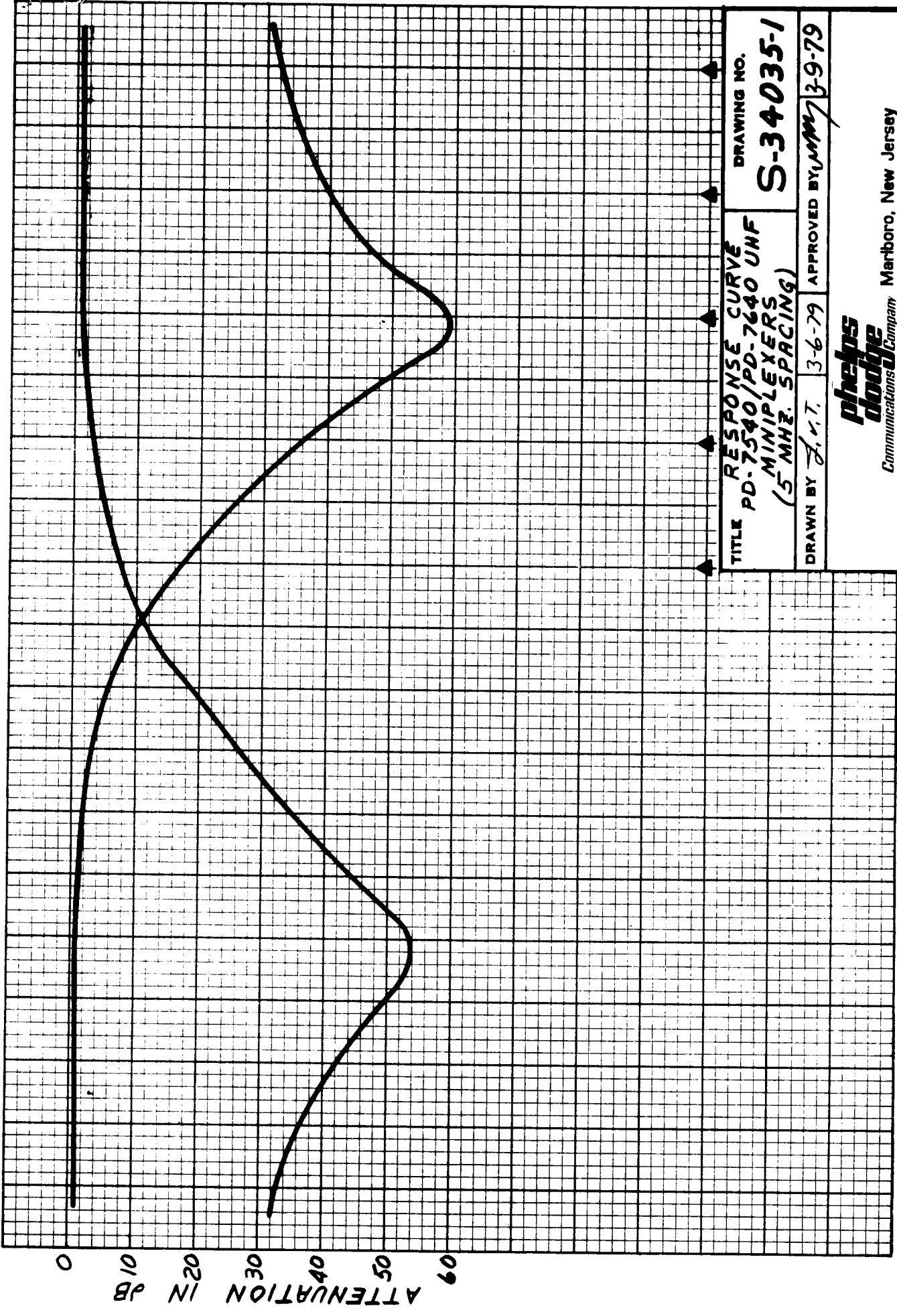
SPECIFICATIONS

	PD-7540/PD-7640		PD-7560/PD-7660
Frequency Range-MHz	406-440/430-470		406-440/430-470
Tx-Rx Spacing-MHz	5	10	5 10
Maximum Input Power -watts	50	50	50 50
Insertion Loss: Rx to Antenna-dB	1.5	1.0	1.5 1.2
Insertion Loss: Tx to Antenna-dB	1.5	1.0	1.5 1.2
Tx Noise Rejection at Rx Frequency-dB	50	60	65 80
Rx Isolation at Tx Frequency-dB	50	60	65 80
Maximum VSWR (50 ohms)	1.5:1		1.5:1
Operational Temperature Range-°F(°C)	-40(-40) to +140(+60)		
Connector Type	BNC Female		
Maximum Dimensions -in. (mm)			
Height	1-1/4(32)		1-1/4(32)
Width	4-1/8(105)		6-1/8(156)
Length	4-3/8(111)		4-3/8(111)
Weight-lbs. (kg)	1.0(0.45)		1.5(0.68)

The MINIPLEXER TM may be made in other electro-mechanical configurations for certain specialized applications. Please consult the factory for further information.



Route 79, Marlboro, NJ 07746 • (201) 462-1880 • TWX (710) 722-3861
1420 Monterey Pass Road, Monterey Park, CA 91754 • (213) 268-9330 • TWX (910) 321-3983
Route 44, Leesburg, FL 32748 • (904) 787-9200 • TWX (810) 871-0873



TITLE RESPONSE CURVE
 PD-7540/PD-7640 UNF
 (5 MHZ. SPACING)

DRAWING NO.
S-34035-1

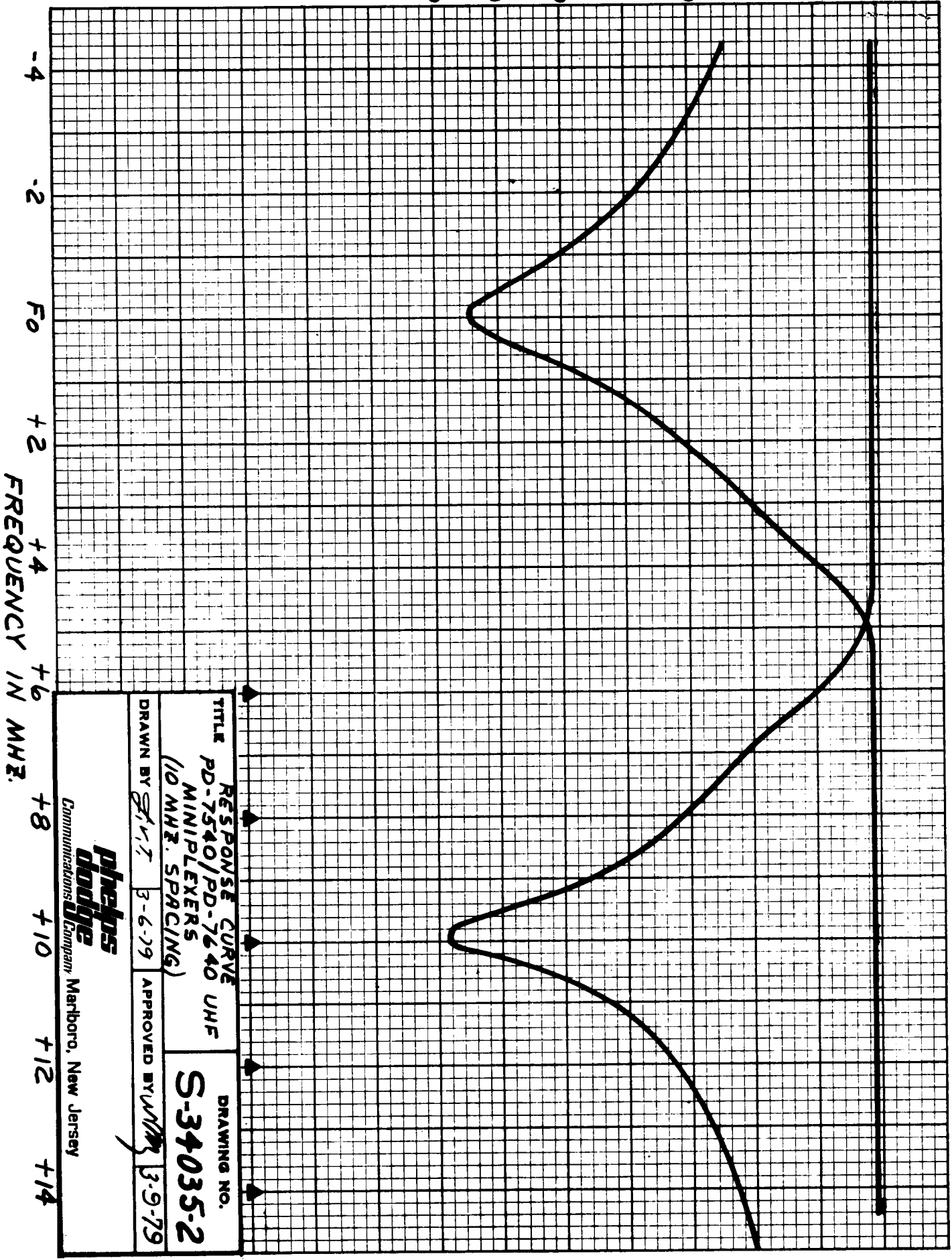
DRAWN BY *J.V.T.* 3-6-79 APPROVED BY *MM* 3-9-79

phelps
dodge
 Communications Company

Marlboro, New Jersey

-2 -1 F₀ +1 +2 +3 +4 +5 +6 +7

FREQUENCY IN MHZ.

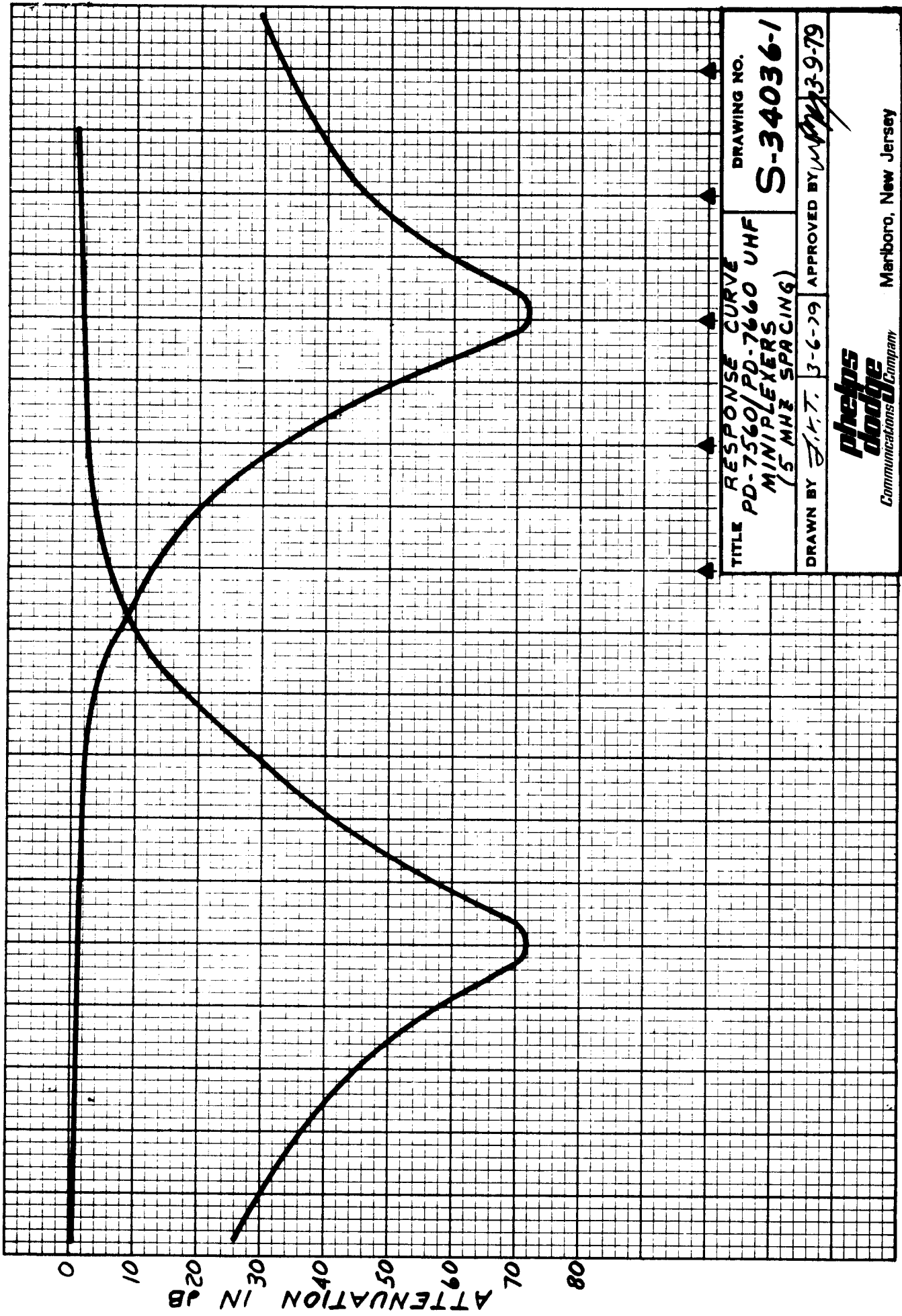


TITLE RESPONSE CURVE
 PD-7540/PD-7640 UHF
 MINIPLEXERS
 (10 MHz. SPACING)

DRAWING NO. S-34035-2

DRAWN BY *g/n/t* 3-6-79 APPROVED BY *W/M* 3-9-79

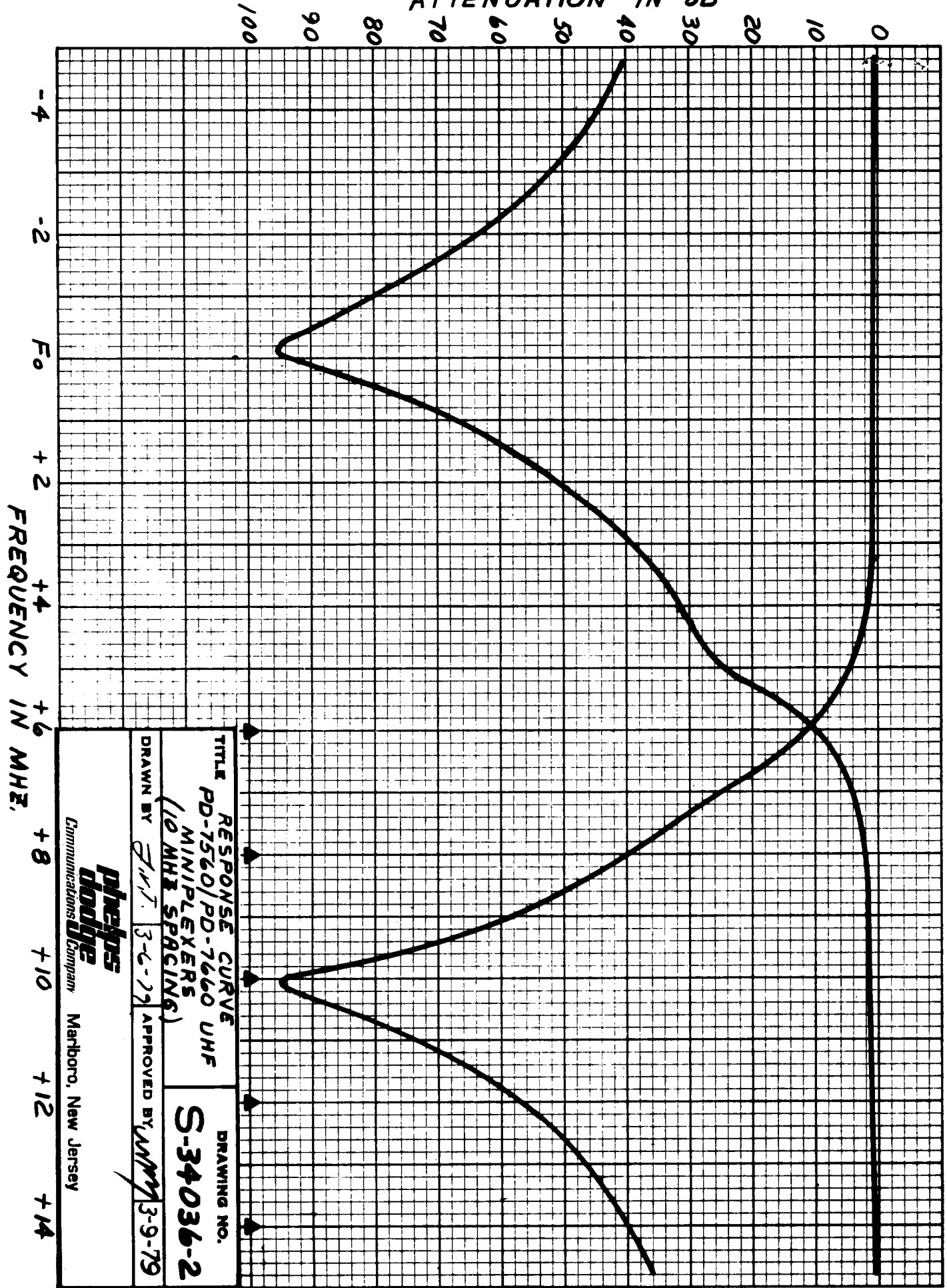
phelps
dodge
 Communications Company, Marlboro, New Jersey



TITLE RESPONSE CURVE PD-7560/PD-7660 UHF MULTIPLIERS (5 MHz SPACING)	DRAWING NO. S-34036-1
DRAWN BY J.H.T.	APPROVED BY M.P. 3-9-79
phelps blodgett Communications Company Marlboro, New Jersey	

-2 -1 Fo +1 +2 +3 +4 +5 +6 +7

FREQUENCY IN MHZ



TITLE RESPONSE CURVE
 PD-7560/PD-7660 UHF
 MINIFLEXERS
 (10 MHZ SPACING)

DRAWING NO. S-34036-2

DRAWN BY *J.M.T.* 3-6-79 APPROVED BY *J.M.P.* 3-9-79

phelps
hodge
 Communications Company
 Marlboro, New Jersey