

CV-472/GXR

FUNCTION:

The Facsimile Diversity Receiving Converter/Combiner Type CV-472/GXR is a receiving converter for frequency shift or sub-carrier frequency modulated (SCFM) facsimile transmissions. The set consists of two units. The receiving converter unit, Unit A, accepts audio FM signals from two radio receivers in diversity operation. Each receiver channel is converted to an amplitude modulated signal which is fed into a diversity combiner, Unit B. This unit combines the signals into a single AM carrier signal for either line transmission or direct feed into a facsimile printer.

MANUFACTURER: Mars Electronics, Syosset, New York

FEDERAL STOCK NO: 5815-776-1608

REFERENCE: T.O. 31W4-4-27-1

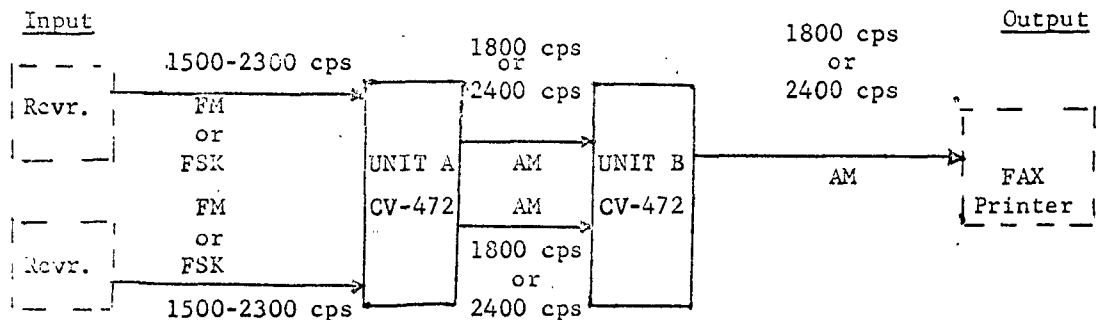
ESTIMATED COST: \$800.00

STATUS: Presently available

PHYSICAL CHARACTERISTICS:

Dimensions: 19" wide, 16" deep, 14" high
Volume: 2.5 cu. ft. (approx.)
Floor Space: Cabinet rack mounted
Weight: 77 lbs.

TECHNICAL CHARACTERISTICS:



INPUT

Number: 1 (normal) or 2 (diversity)
Type: Audio (FM or FSK)
Frequency: 1500-2300 cps
Impedance: 600 ohms
Levels: -45 dbm to +5 dbm

ENGINEERING DRAFT

CV-472/GXR (Cont'd.)

OUTPUT

Number:	1
Type:	AM
Frequency:	1800 cps DSB; 2400 cps double or vestigial sideband
Impedance:	600 ohms balanced
Levels:	-30 dbm to +10 dbm
Contrast Range:	Variable from 8 db to 20 db in 5 steps

OTHER:

Picture Signal Bandwidth:	0-900 cps (using supplied plug-in filter)
De-emphasis Time Constant:	1000 microseconds
Reception:	Positive or negative copy (controllable)
Tuning Indicator:	1500 cps or 2300 cps (each within ± 10 cps)
Primary Power:	0.262 KVA, 115 V, 50-60 cps, single phase

CV-473/GXT

FUNCTION:

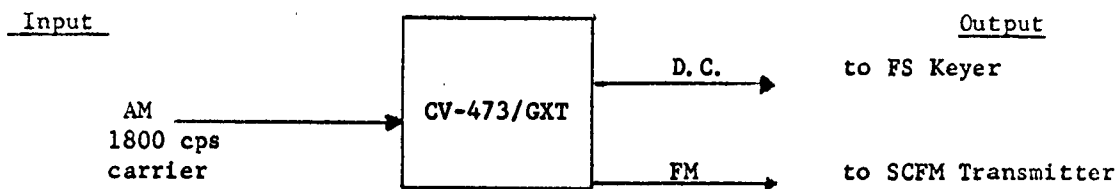
The Facsimile Transmitting Converter, Type CV-473/GXT is a transmitting converter used to convert the 1800 cps amplitude modulated carrier from a facsimile transmitter to a D.C. picture signal for application to a frequency shift radio transmitter or to a frequency modulated sub-carrier for sub-carrier frequency modulation (SCFM) transmission. Included in the converter is provision for the use of pre-emphasis on the picture signal.

MANUFACTURER: Mars Electronics, Syosset, New York
FEDERAL STOCK NO: 5815-776-9706
REFERENCE: T.O. 31W4-4-28-1
ESTIMATED COST: \$800.00
STATUS: Presently available

PHYSICAL CHARACTERISTICS:

Dimensions: 19" wide, 12" deep, 7" high
Volume: .93 cubic feet (approx.)
Floor Space: Cabinet rack mounted
Weight: 34 lbs.
Mounting: Rack Type, horizontal chassis

TECHNICAL CHARACTERISTICS:



INPUT

Number: 1
Type: AM (1800 cps carrier)
Impedance: 600 ohms balanced
Levels: -45 dbm to +10 dbm

ENGINEERING DRAFT

CY-473/GMT (Cont'd.)

OUTPUT

Number:	2
Type:	1 FM, and 1 D.C.
Frequency:	1500-2300 cps within 1 db
Impedance:	600 ohms balanced (FM) 6500 ohms (D.C.)
Levels:	Variable up to +6 dbm rms for SCFM operation (terminated in 600 ohms) 0 v to 10 v negative, (-10 v max. D.C. level for undistorted operation at maximum signal from FAX transmitter)

OTHER TECHNICAL CHARACTERISTICS:

Signal Bandwidth Filter:	0-900 cps (greater bandwidths may be obtained with appropriate plug-in filters)
SCFM Bandwidth:	1500-2300 cps
Pre-emphasis Time Constant:	1000 microseconds
Tuning Indicator:	1500 cps and 2300 cps (each within ± 10 cps)
Primary Power:	160 watts, 105-125 v, 50-60 cps, single phase