



INVELCO S.A.
INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

THIS MP-116-1 MULTICOUPLER CAN CONNECT UP TO 16 RECEIVERS TO ONLY ONE ANTENNA IN THE RANGE OF 400 KHz TO 30 MHz

IT CAN INCORPORATE A PRE-SELECTOR FILTER THAT CAN BE ACTIVATED AT WILL, EVEN FROM THE DISTANCE.



PRE-SELECTOR MULTICOUPLER MODEL MP-116-A

The MP-116-A pre-selector multicoupler is destined to connect, with no losses, one receiver antenna to sixteen H.F. receivers in the range of 0.4 to 30 MHz with no noticeable interaction between them. It also has an amplifier of high intercept point of third order (low intermodulation), for compensating the losses originated in the pre-selector input filter and the distributor of 1 to 16 outputs.

IMPORTANT SPECIFICATIONS :

- FREQUENCY RANGE OF 400 KHz TO 30 MHz.
- INPUT IMPEDANCE 50 OHMS.
- OUTPUT INSULATION / BETTER OUTPUT OF 30 dB
- 2ND ORDER INTERMODULATION $I_{P2} = 50 \text{ dBm}$
- 3RD ORDER INTERMODULATION $I_{P3} = 30 \text{ dBm}$
- POWER SUPPLY 220 VAC, 50/60 Hz.
- RANGE TEMPERATURE -20°C TO $+55^{\circ}\text{C}$.

Spanish
Production



TECHNICAL CHARACTERISTICS OF THE PRE-SELECTOR
MULTICOUPLER

MODEL MP-116-A

TECHNICAL SPECIFICATIONS

Frequency range: 400 KHz - 30 MHz

Input/Output impedance 50 Ohm.

Input connectors N Female.

No. of antenna inputs 1

N° of receivers output 16

Max. Input/Output R.O.E. 2:1

Input/Input insulation Better than 30 dB.

Output/Input insulation Better than 25 dB.

Noise figure 10 dB maximum.

Insertion gain 3 dB ± 3 dB.

2nd order intermodulation Ip2 = 50 dBm.

3rd order intermodulation Ip3 = 30 dBm.

Input protection 30 Vrms.

Static electricity Solid state Unloader.

Other protections Fuse for R.F.

Pre-selector specifications:

Connection/disconnection Frontal key

Simultaneous receiver passbands with connected pre-selector
(specified by user) 450 - 513 KHz
2.045 - 3.300 KHz
or
450 - 513 KHz
2.045 - 6.300 KHz

Simultaneous receiver passbands with disconnected pre-selector 400 KHz to 30 MHz

Power supply 115/220 Vac.

Maximum consume 60 w.

Dimensions:

Height 88 mm (2U).

Width 482.5 mm (19').

Depth 305 mm (12').

Weight 5 Kg.

Finish RAL 7001/RAL 7031

Serigraphy Black / White

NOTE:

It can also include internally a Notch filter (excluded band) to attenuate some not desired frequencies inside the band, according to what the user requires.