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ELECTRICAL DATA

A. General data

Radio-frequency range..... 3,800 to 4,200 mc/s
corresponding to wavelengths .. 7.9 to 7.1 cm

Number of available RF channel pairs
as per frequency allocation
(Set A or B of equispaced frequencies) 6

Separation between the transmitting and
receiving frequencies of
an RF channel pair +) . . . . . 213 mc/s

System value in transmitting
a multichannel baseband (carrier)..145 db (16.7 N)
a TV baseband . . . . . 136 db (15.7 N)

Inside cross section of the
antenna feeder . . . . . 58.2 mm x 29.1 mm
(2 9/32" x 1 5/32")

B. Modulation

Type of modulation . . . . . Frequency modulation

1. Carrier baseband

(600 voice channels) . . . . . 60 to 2,540 kc/s
Maximum frequency swing ..... approx. ± 4.5 mc/s
Mean channel swing . . . . . ± 280 kc/s
(200 kc/s RMS)

Relative input power level per channel:
Standard value . . . . . - 15 db (-1.7 N)
adjustable between . . . . . - 18 and - 14 db
(-2.1 to -1.6 N)

Relative output level
per channel . . . . . -15 ± 0.5 db
(-1.7 ± 0.05 N)

Input and output impedances . . . . . Z = 75 Ω
Reflection attenuation
at carrier terminal . . . . . ≥ 20 db

2. Television baseband . . . . . 0,01 to 5,000 kc/s

Maximum frequency swing (peak-to-peak) . . . 8 mc/s
Video signal voltage at input:
Standard value . . . . . 1 v peak-to-peak
adjustable between 0.7 and 1.3 v peak-to-peak
Video signal voltage
at output . . . . . 1 v peak-to-peak ± 0.5 %
Input and output impedances . . . . . Z = 75Ω
Reflection attenuation
at television terminal . . . . . ≥ 24 db

3. Service channel
(Frequency band) . . . . . .50 to 5,000 c/s
Input level . . . . . -22.6 db (-2.6 N)
Output level . . . . . -14.8 db (-1.7 N)

+) For the frequency allocation refer to the table

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C. Transmitter

Transmitting power . . . . . 5 w

Frequency instability
at + 2o C ± 2o C . . . . . ± 3 x 10^{-5}
IF input level . . . . . 0.3 v
Input impedance . . . . . Z = 75 Ω

D. Receiver

Noise figure . . . . . < 14 db
Intermediate frequency . . . . . 7o mc/s

IF bandwidth . . . . . ± 15 mc/s
with a drop at the band edges by . . . approx. 5 %

IF output level . . . . . 0.6 v
IF output impedance . . . . . Z = 75 Ω

E. Power supply

Mains voltage . . . . . 11o or 22o v
Admissible mains voltage variations:
For compliance with the specified performance data . . . . . ± 2 %

Operation still possible with . . . . . ± 5 %
temporarily (for approx. 1o sec) . . . . . -1o %
Mains frequency . . . . . 48 to 62 c/s
Input power of the radio bay in
terminal operation . . . . . 65o va
in repeater operation . . . . . 55o va

Input power of the modulating bay . . . . . 65o va

F. IF switching attachment

Frequency range . . . . . 55 to 85 mc/s
IF voltage at input . . . . . 0.6 v
IF voltage at output . . . . . 0.6 v
Input and output impedances . . . . . Z = 75 Ω

Decoupling of a blocked path:
Diversity unit . . . . . } 7o db (> 8 N)
Feed-out and feed-in units . . . . . } 52 db (> 6 N)

Highest switching rate
of the diversity unit . . . . . every 25 ms

Level drop with a
given input signal . . . . . < 1.3 db (< 0.15 N)

Transfer time of the diversity unit . . . . < 1o us

Power input: Diversity unit. . . . . approx. 25 va
Feed-out unit . . . . . approx. 3o va
Feed-in unit . . . . . approx. 3o va

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