RECEPTION SET, EDDYSTONE, 730/4 (Z4/ZA 51262)

TECHNICAL HANDBOOK - DATA SUMMARY

FURPOSE

General purpose communications-type single superheterodyne a.m. receiver covering range 480kc/s to 30Mc/s in five bands.

DESCRIPTION

The basic receiver comprises: Two r.f. stages, mixer, local oscillator, two variable bandwidth i.f. stages with gain compensation, detector, i.f. stages with gain compensation, detector, two a.f. stages and an output stage. A.G.C., noise limiter, 'S' meter, beat frequency oscillator and crystal calibrator facilities are incorporated. A low impedance i.f. outlet is provided. A crystal filter may be inserted in the i.f. amplifier, and a narrow-band a.f. filter may be switched into the audio stages. A logging scale is fitted. The set is not sealed. Brackets are supplied for 19 in. rack mounting.

PHYSICAL DATA

Weight Height

Width

Depth overall

59 lb 9.3/8 in. 16.7/8 in. (inside mounting 13.3/4 in.

brackets)

Fig 1 - Front view

Image attenuation varies from -90dB at 2Mc/s to

7% distortion 3% distortion

0.3V into 70Ω at 450kc/s.

Output variation less than 14dB for signal

Max 1000mW - 20% distortion

change of 100dB.

POWER REQUIREMENTS AND CONSUMPTION

A.C: 80W at 110 to 250V, 50c/s

D. C: 6V, 5A and 250V, 120mA.

500mW -100mW -

0000

R. F. selectivity: -

I.F. output:

or

AERIAL

-38dB at 25Mc/s. Noise factor: 5 to 12dB. Aud10 output (600Ω or 2.5Ω):- Page 1

Issue 1, 23 Sep 58

Distribution - Class 880. Code No 4

TELECOMMUNICATIONS

RESTRICTED

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

FREQUENCY

E 740

Tuning range: -		
1	12.3Mc/s	30.0Mc/s
2	5.3Mc/s	12.51c/s
3	2.5Mc/s	5.7Mc/s
4	1.11Mc/s	2.5Mc/s
5	480kc/s	1120kc/s

Intermediate frequency: 450kc/s

Intermediate frequency bandwidth (-3dB):-

- (a) Variable coupling 10.0, 3.6, 2.2, 1.5kc/s
- 0.6kc/s (asymmetrical) (b) Crystal filter

Crystal calibrator: 500kc/s

B. F. O. :

I.F. ±2.0kc/s

Audio filter:

1,000c/s Centre frequency Bandwidth (-6dB) 100C/S

Sensitivity (50mW output, 15dB Signal-to-noise ratio):-

C.W. - Ranges 1, 2, 3, 4 - better than 1ptV Range 5 - better than 2ptV

R. T.

- better than 54V

PERFORMANCE.

 80Ω unbalanced.

267/8C/1017 57 /M /7557

END