BBC Engineering Design Information

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THE QUEEN'S AWARD TO INDUSTRY 1969

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Miniature Monitoring Loudspeaker LS3/5A

This design replaces the loudspeaker type LS3/5, the units in which are no longer available. It is a small Outside Broadcast loudspeaker intended for use where space is at a premium and some sacrifice of bass response and loudness of reproduction is justified for the sake of achieving compactness.

The unit includes a BBC LS2/7 Bass Unit, a KEF HF Unit T27 type SP1032 and a Crossover Filter FL6/23. Both loudspeaker units have impedances of 8Ω, whereas the LS3/5 were of 4Ω impedance. The crossover filter presents a nominal input impedance of 15Ω compared with 9Ω for the FL6/16 in the LS3/5.

The axial response/frequency characteristic is uniform from about 70Hz upwards, with wide angle sound radiation particularly in the horizontal plane. Maximum output is greater and the quality higher than that obtainable from commercial loudspeakers of comparable size, especially in the lower frequency range.

The loudspeaker is housed in a teak cabinet measuring 300mm x 185mm x 160mm.

GENERAL DATA

Electrical Power:	25 Watts*programme.
Input Impedance:	15Ω
Input Connector:	XLR-3-14
Axial Frequency Response:	70Hz - 20kHz
Low Frequency Unit:	LS2/7
Nominal Frequency Range:	70Hz - 3.5kHz
High Frequency Unit:	KEF T27/SP1032
Nominal Frequency Range:	3.5kHz - 20kHz
Equaliser/Crossover Network:	FL6/23
Cabinet	CT4/11A
Finish:	Teak Veneer
Width:	185mm
Height:	300mm
Depth:	160mm
Overall Weight:	4.5 kg

* Maximum Sound Level 95dB with respect to 2×10^{-5} N/m^2 at 1.5m in average listening room.

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