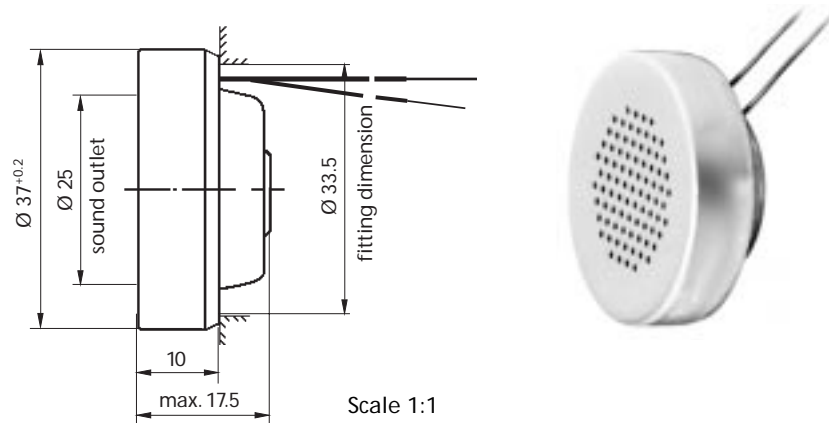




**Dynamic Transducers Series 80-20...  
Part No. 80-20-04328 and 80-20-04591**



Suitable as microphone and loudspeaker, measured with 1 W, at distance of 1 m  
Areas of use for hand-held radio sets and control devices  
(Part No. 80-20-04328) for standard applications  
(Part No. 80-20-04591) front waterproof up to 30 cm, 1 h

**Technical specification**

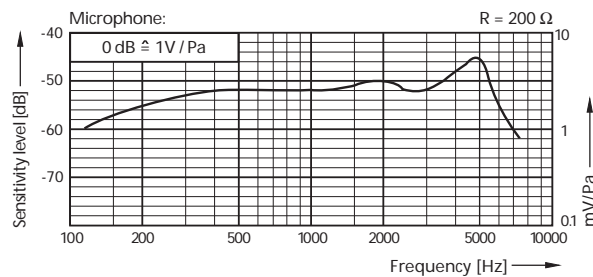
**Holmberg  
GmbH & Co. KG**  
Ohlauer Straße 5-11  
D-10999 Berlin  
Postbox 36 01 40  
D-10971 Berlin  
Phone 030/617 80-0  
Fax 030/618 40 94

Weight .....	approx. 45 g	
Terminals .....	approx. 100 mm stranded wires, ends tinned (other lengths on request)	
Degree of protection (front) .....	for 80-20-04328 IP 40 for 80-20-04591 IP 47 (0.3 m; 1h)	} according to DIN 40050
Temperature range .....	operation: -40 °C up to +60 °C storage: -40 °C up to +80 °C	Nb } acc. to DIN IEC 68 section 2-14 Nb }
Acceptable relative humidity .....	≤ 93 %	Db acc. to DIN IEC 68 section 2-30

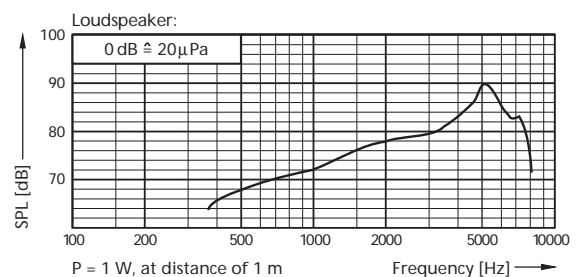
**Electroacoustic specification (capsule fitted into housing)**

DC resistance (±15 %) .....	15; 30; 50; 200; 600 W (other values on request)	
Directional characteristic .....	omnidirectional	
Free-field no-load sensitivity .....	2.5 mV/Pa [(-52 ± 3) dB. rel. 1 V/Pa]	R = 200 Ω, f = 1 kHz
Power handling capability .....	0.2 W (short-term 0.5 W)	according to DIN 45573
Rated sound pressure level .....	(72 ± 2) dB, rel. 20 µPa	at 1 W, at distance of 1 m, f = 1 kHz

**Frequency response**



Capsule fitted into a 50 cm<sup>3</sup> housing



Capsule fitted into a 50 cm<sup>3</sup> housing

Specifications  
subject to change  
without notice.  
Printed in Germany  
02.97

For optimal frequency response the conditions of installation are important, especially the design of front and rear sound openings. Please ask for further information!

