

FLUSH-MOUNT MICROPHONE SETS

GRAS 47AX

½" CCP Flush-Mount Microphone Set



47AX is a low profile ½" precision pressure microphone set with built-in CCP preamplifier. With a height (to the diaphragm) of only 8 mm, 47AX is suitably designed for flush mounting in plates in ground array applications and other applications with size constraints.

GRAS 47BX

¼" CCP Flush-Mount Microphone Set



47BX is a low profile ¼" precision pressure microphone set with built-in CCP preamplifier. With a height (to the diaphragm) of only 8 mm, 47BX is suitably designed for flush mounting in plates in ground array applications and other applications with size constraints.

GRAS 47AD

½" CCP Flush-mount Microphone Set High Sensitivity



Identical to 47AX, but with higher sensitivity—see specifications below.

GRAS 47DX

⅛" CCP Flush-mount Microphone Set



47DX is a low profile ⅛" precision pressure microphone set with built-in CCP preamplifier. With a height (to the diaphragm) of only 9 mm, 47DX is suitably designed for flush mounting in plates in ground array applications and other applications with size constraints.

Specifications	47AX	47BX
Nominal Sensitivity	12.5 mV/Pa at 250 Hz	1.6 mV/Pa at 250 Hz
Frequency Response	3.15 Hz – 20 kHz (± 2.0 dB) 5 Hz – 12.5 kHz (± 1.0 dB)	4 Hz – 70 kHz (± 2.0 dB) 10 Hz – 25 kHz (± 1.0 dB)
Dynamic Range	Upper limit; 150 dB re. 20 µPa (3% distortion) Thermal noise; 22 dB(A) re. 20 µPa	Upper limit; 166 dB re. 20 µPa (3% distortion) Thermal noise; 44 dB(A) re. 20 µPa
Temperature	- 30°C to + 70°C (operation) - 40°C to + 85°C (storage)	- 30°C to + 70°C (operation) - 40°C to + 85°C (storage)
Static Pressure Coefficient	-0.008 dB/kPa (250 Hz / 25°C)	-0.008 dB/kPa (250 Hz / 25°C)
Dimensions	Diameter; Microphone: 12 mm—Preamplifier: 18 mm	
Height of Microphone Set	With grid: 9.2 mm / Without grid: 8 mm	With grid: 9.2 mm / Without grid: 8 mm
Weight	9 g	7.5 g

Specifications	47AD	47DX
Nominal Sensitivity	50 mV/Pa at 250 Hz	0.9 mV/Pa at 250 Hz
Frequency Response	3.15 Hz – 10 kHz (± 2.0 dB) 12.5 Hz – 7 kHz (± 1.0 dB)	10 Hz – 100 kHz (± 3.0 dB)
Dynamic Range	Upper limit; 138 dB re. 20 µPa (3% distortion) Thermal noise; 18 dB(A) re. 20 µPa	Upper limit; 174 dB re. 20 µPa (3% distortion) Thermal noise; 52 dB(A) re. 20 µPa
Temperature	- 30°C to + 70°C (operation) - 40°C to + 85°C (storage)	- 30°C to + 70°C (operation) - 40°C to + 85°C (storage)
Static Pressure Coefficient	-0.008 dB/kPa (250 Hz / 25°C)	-0.008 dB/kPa (250 Hz / 25°C)
Dimensions	Diameter; Microphone: 12 mm—Preamplifier: 18 mm	Diameter; Microphone: 3 mm—Preamplifier: 12 mm
Height of Microphone Set	With grid: 9.2 mm / Without grid: 8 mm	With grid: 9.4 mm / Without grid: 9 mm
Weight	9 g	4 g

