

NPA 413  
NPA 416  
NPA 417



NPA417



NPA413



NPA416

SPECIFICATIONS

Model No.	NPA413-O / 413-U	NPA417-O / NPA417-U	NPA416
Element	Back Electret-Condenser	Electret-Condenser	Electret-Condenser
Polar Pattern	Omni-directional / Uni-directional	Omni-directional / Uni-directional	Uni-directional
Frequency Response	20 Hz to 20,000 Hz(Omni-directional) 70 Hz to 16,000 Hz(Uni-directional)	20 Hz to 16,000 Hz(Omni-directional) 60 Hz to 15,000 Hz(Uni-directional)	70 Hz to 16,000 Hz
Open Circuit Sensitivity	- 67 dB±3dB (0 dB=1V / microbar)	- 58 dB±3dB (Omni-directional) - 66 dB±3dB (Uni-directional)	- 65 dB±3dB
Impedance	1100Ω±30%(Omni-directional) 1400Ω±30%(Uni-directional)	1800Ω±30%(RL:2KΩ)(Omni-directional) 600Ω±30%(RL:680Ω)(Uni-directional)	600Ω±30%
Maximum Input Sound Level	110 dB SPL, 1 kHz at 1%T.H.D.		
Dynamic Range	79 dB, 1 kHz at Max SPL		
Signal-to-noise Ratio	63 dB, 1 kHz at 1Pa		
Operating Voltage	D.C. 1V~10V(RL=2000Ω)	D.C. 1.5V~10V	D.C. 1.5V~10V(RL:680Ω)
Dimensions	Ø8X21mm	Ø13X47mm	Ø10.5X26mm
Output Connector	Ø3.5 Plug		
Material	Aluminum	Copper	Copper