

Probe Amplifiers



AELA001
 • High-gain
 • Ultra-low noise



AEMA001
 • High-gain
 • Ultra-low noise



AEWA001
 • High-gain
 • Ultra-wideband

Specifications

Model	AELA001	AEMA001	AEWA001
Frequency	100kHz - 1GHz	10MHz - 6GHz	10MHz - 20GHz
Noise figure	≤ 5dB	≤ 5dB	10MHz - 250MHz: ≤ 15.0dB 250MHz - 13GHz: ≤ 5.0dB 13GHz - 20GHz: ≤ 7.5dB
Gain	≥ 50dB	10MHz - 1GHz: ≥ 40dB 1GHz - 6GHz: ≥ 30dB	10MHz - 6GHz: ≥ 40dB 6GHz - 16GHz: ≥ 30dB 16GHz - 20GHz: ≥ 25dB
1dB compression	≤ -43dBm	10MHz - 1GHz: ≤ -28dBm 1GHz - 6GHz: ≤ -18dBm	10MHz - 6GHz: ≤ -24dBm 6GHz - 16GHz: ≤ -18dBm 16GHz - 20GHz: ≤ -17dBm
Max. output power	≥ 5.5dBm	≥ 8dBm	10MHz - 6GHz: ≥ 12dBm 6GHz - 16GHz: ≥ 10dBm 16GHz - 20GHz: ≥ 8dBm
Typical performance at 25°C			
SWR	≤ 2	10MHz - 1GHz: ≤ 2 1GHz - 6GHz: ≤ 3	10MHz - 10GHz: ≤ 2 10GHz - 20GHz: ≤ 4
Input level	+5dBm (max)	+13dBm (max)	+18dBm (max)
Impedance	SMA Female 50Ω	SMA Female 50Ω	K Female 50Ω
Power supply	17V - 22V DC ≤ 150mA	15V - 22V DC ≤ 110mA	12V DC 330mA (16.5V in max.)
Dimensions	W100mm×D300mm×H90mm		
Weight	Approx. 1kg		
Recommended probes	ALMP001, AEMP002, CP-2S, MP-10LA *Please see the probe specifications for details.		
Accessories	Calibration data, AC adapter		