



BNC Model 765 Vs. Keysight 81150A Comparison Chart

	BNC Model 765-2	BNC Model 765-4	81150A
Channel Count	2	4	1- or 2- channel, coupled and uncoupled
Amplitude pk-pk	200 mV _{pp} to 5 V _{pp} Adj	200 mV _{pp} to 5 V _{pp} Adj	High bandwidth amplifier: 100 mV _{pp} to 10 V _{pp} (into 50 Ω) High Voltage amplifier: 200 mV _{pp} to 20 V _{pp} (into Hi-Z)
Output Impedance	50 Ohm nominal	50 Ohm nominal	50 Ω, or Hi-Z
Baseline Offset	± 2.5 V Adjustable	± 2.5 V Adjustable	Fixed Baseline
Baseline Offset resolution	< 2 mV	< 2 mV	n/a
Amplitude Resolution	< 10 mV	< 10 mV	1 mV, 4 digits
DC Amplitude accuracy	± (1% of setting + 10mV)	± (1% of setting + 10mV)	± (1.5% of setting + 5 mV)
Rise/Fall time (10%-90%) Typ	< 100 ps fixed	< 100 ps fixed	High bandwidth amplifier: 2.5ns (10% to 90%) High voltage amplifier: 7.5ns (10% to 90%)
Rise/Fall time (20%-80%) Typ	< 70 ps fixed	< 70 ps fixed	not specified
Overshoot Typ	< 10%	< 10%	2% typ.
Repetition rate	< 1Hz to 120 MHz	< 1Hz to 240 MHz	High bandwidth amplifier: 1 μHz to 120 MHz (Pulse) High voltage amplifier: 1 μHz to 50 MHz
Period	8.33ns to > 1s	4.166 ns to > 1 s	
Period resolution Typ	10ps	10ps	25ps
Period accuracy Typ @ 25C	± 5 ppm	± 5 ppm	± 2 ppm
Period jitter Typ	< 25 ps RMS	< 25 ps RMS	1ns Pk-Pk
Width	< 300 ps to > 1s	< 300 ps to > 1s	4.1 ns to (period - 4.1 ns) typ.
Width resolution Typ	10ps	10ps	100 ps, 6 digits
Width accuracy Typ	± (0.01% + 20ps)	± (0.01% + 20ps)	50ppm ± 500 ps
Delay (Trigger out to Output)	0 to > 1s	0 to > 1s	0 s to 1000 s
Delay resolution Typ	10 ps	10 ps	1ps
Delay accuracy Typ	± (0.01% + 20ps)	± (0.01% + 20ps)	50 ppm ±25 ps
SE or Complementary output	Both	Both	not specified
Trigger mode	continuous, single, burst, gated, external	continuous, single, burst, gated, external	continuous, burst, sweep or mod, external, single
Trigger in threshold Resolution	programmable in 50mV steps	programmable in 50mV steps	100mV
Trigger in range	± 10V	± 10V	± 10V
Trigger in impedance	50Ω or 1kΩ programmable	50Ω or 1kΩ programmable	50 Ω or 10 kΩ
Trigger in to output jitter, Typ	< 35 ps RMS	< 35 ps RMS	15 ps RMS
Trigger output impedance, Nom	50 Ω	50 Ω	50 Ω
Trigger output range (open load)	1.8 V to 3.3V	1.8 V to 3.3V	TTL: 2.5 V nom. Fixed ECL: -0.85 V/-1.80 V nom.
Display Characteristics & OS	7in, 1024x600, capacitive touch LCD- Win 10	7in, 1024x600, capacitive touch LCD- Win 10	
Dimensions & Weight	W445mm x H135mm x D320 mm, 11kg	W445mm x H135mm x D320 mm, 11kg	Bench top: 439 mm x 108 mm x 456 mm, 8kg
	Rackmount: 3U 19" rackmount	Rackmount: 3U 19" rackmount	Rack mount: 428 mm x 89 mm x 439 mm

*Price and Specifications Subject to Change