



Values based upon Sam Wetterlin's VNA Guide pg. 5

Basic Hi-Z Series Fixture	IEC 444 Pi-Network Resonator Fixture
R1 91 Ohms 0.1%	R1 205 Ohms 1%
R2 49.9 Ohms 0.1%	R2 59 Ohms 1%
R3 127 Ohms 0.5%	R3 14.3 Ohms 0.5%
R4 127 Ohms 0.5%	R4 14.3 Ohms 0.5%
R5 49.9 Ohms 0.1%	R5 59 Ohms 1%
R6 91 Ohms 0.1%	R6 205 Ohms 1%

Series Fixture		
For VE3NEA for Ham VNA 1.1		
K9IVB	Rev 1.0	Page # or name
	6/4/2014	

Series Fixture BOM v06102014

Common Parts

\$ as of 6/2014

REF Des	Value	Description	Mfg	Mfg #	Pkg	Mouser	Qty	1 @ \$	10 @ '\$
DUT	3 Contacts	Fixed Terminal Blocks 3P 5.08mm 90DEG	Phoenix Contact	1729131		651-1729131	1	\$1.410	
In, Out	SMA End Launch	RF Connectors / Coaxial Connectors PC END MT JCK GLD .062" BOARD THICK	Johnson / Emmerson	142-0701-801 [No Hardware]	End Launch SMA	530-142-0701-801	2	\$3.490	\$3.420
alt		RF Connectors / Coaxial Connectors PC END BLKHD JCK GLD .062" BOARDS	Johnson / Emmerson	42-0701-871 [With Hardware]	End Launch SMA	530-142-0701-871		\$4.960	\$4.600
PCB			OSH Park	3 @ \$5.00/in-sq	0.45" ~1.75" x	[-0.79 in-sq]		est \$4.00 for 3 pp	

Basic Hi-Z Series Fixture

R1, 6	91 0.1%	Thin Film Resistors - SMD 0805 1/8W 91ohms	Panasonic	ERA-6AEB910V	0805	667-ERA-6AEB910V	2	\$0.430	\$0.194
R2, 5	49.9 0.1%	Thin Film Resistors - SMD 0805 49.9ohm 0.1% 25ppm	Panasonic	ERA-6AEB49R9V	0805	667-ERA-6AEB49R9V	2	\$0.440	\$0.194
R3, 4	127 0.5%	Thin Film Resistors - SMD 0805 127ohm 0.1% 25ppm	Panasonic	ERA-6AEB1270V	0805	667-ERA-6AEB1270V	2	\$0.430	\$0.194
R3, 4	alt	Thick Film Resistors - SMD 0805 127ohms 1% Tol	Panasonic	ERJ-6ENF1270V	0805	667-ERJ-6ENF1270V		\$0.100	\$0.029

IEC 444 Pi-Network Resonator Fixture

R1, 6	205 1%	Thick Film Resistors - SMD 0805 205ohms 1% Tol	Panasonic	667-ERJ-6ENF2050V	0805	667-ERJ-6ENF2050V	2	\$0.100	\$0.029
R2, 5	59 1%	Thick Film Resistors - SMD 0805 59.0ohms 1% Tol	Panasonic	ERJ-6ENF59R0V	0805	667-ERJ-6ENF59R0V	2	\$0.100	\$0.029
R3, 4	14.3 0.5%	Thin Film Resistors - SMD 1/8W Regular 14.3ohm 0.5% 50ppm	Susumu	RG2012Q-14R3DT5	0805	754-RG2012Q-14R3DT5	2	\$0.240	\$0.110
R3, 4	alt	Thick Film Resistors - SMD 0805 14.3ohms 1% Tol	Panasonic	ERJ-6ENF14R3V	0805	667-ERJ-6ENF14R3V		\$0.100	\$0.029