



4-ELEMENT BALANCED DIPOLE DIRECTION-FINDING ANTENNA ARRAY, 120-600 MHZ, VERTICAL POLARIZATION, N-TYPE, 50 OHM, P4SA012-06V1



P4SA012-06V1 4-element balanced dipole antenna array for 120-600 MHz direction finding, with vertical linear polarization, 50 Ohm impedance, and individual N-type male outputs.

Parameter	Value
Operating Frequency Range	120-600 MHz
Polarization	Vertical linear
Impedance	50 Ohm
Connector Type	N-type male
TYPICAL GAIN	
Gain at 150 MHz	-3.24 dBi
Gain at 300 MHz	3.22 dBi
Gain at 550 MHz	2.47 dBi
Gain at 600 MHz	-0.954 dBi
TYPICAL CROSS-POLARIZATION ISOLATION	
Cross-Polarization Isolation at 150 MHz	53 dB

Cross-Polarization Isolation at 300 MHz	63 dB
Cross-Polarization Isolation at 550 MHz	40 dB
Cross-Polarization Isolation at 600 MHz	39 dB
TYPICAL SIDE-LOBE LEVEL – E-PLANE	
Side-Lobe Level at 150 MHz	-9.4 dB
Side-Lobe Level at 300 MHz	-11.1 dB
Side-Lobe Level at 550 MHz	-0.7 dB
Side-Lobe Level at 600 MHz	-0.8 dB
TYPICAL SIDE-LOBE LEVEL – H-PLANE	
Side-Lobe Level at 300 MHz	-11.2 dB
Side-Lobe Level at 550 MHz	-6.1 dB
Side-Lobe Level at 600 MHz	-5.5 dB
TYPICAL -3 dB BEAMWIDTH – E-PLANE	
Beamwidth at 150 MHz	80.1°
Beamwidth at 300 MHz	77°
Beamwidth at 550 MHz	39.3°
Beamwidth at 600 MHz	36.3°
TYPICAL -3 dB BEAMWIDTH – H-PLANE	
Beamwidth at 150 MHz	157.4°
Beamwidth at 300 MHz	142.9°
Beamwidth at 550 MHz	72.7°

Beamwidth at 600 MHz	89.5°
CONSTRUCTION	
Number of Balanced Dipoles	4
Relative Arrangement	90° to one another
Manufacturing Method	Photolithography on dielectric sheet material
Antenna Element Housing	Radio-transparent housing
Support Structure	Foldable
Output Configuration	Separate output for each antenna element
Operating Temperature Range	-40 to +50 °C
Atmospheric Pressure	750 ± 20 mmHg
Operating Relative Humidity at 25 °C	90%
Storage Temperature Range	-40 to +60 °C
Storage Relative Humidity	Up to 90%, non-condensing

Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that the view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details the customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each of our customers has a 1.5 year warranty and 7 year aftersales support for the whole range of our products.