AN220203-02A

Rev. 003



650 MHz ... 9000 MHz UWB dual-polarized Vivaldi antenna



General information

Ultra-wideband dual-polarized Vivaldi antenna for various applications including laboratory measurements, spectrum monitoring, remote sensing and control, etc.

Typical applications ISM, RFID, IoT, LP-WAN, Smart meters, 5G, LTE, UMTS, GSM, UWB

Electrical data		
Antenna type	Dual-polarized Vivaldi antenna	
5G bands	1-3, 5, 7, 8, 12-14, 18, 20, 25, 26, 28-30, 34, 38-41, 46-48, 50, 51, 53, 65, 66, 70, 74-84, 86, 89-98	
4G bands	1-14, 17-30, 32-53, 65-71, 74-76	
Frequency range [MHz]	6501600	16009000
Return loss [dB]	-10	-9
Peak gain [dBi]	3.66.4	6.48
Radiation efficiency [%]	8390	4583
Nominal input impedance [Ohm]	50	
Polarization	two orthogonal linear	
Radiation pattern	directional	
Maximum input power [W]	10	

Mechanical data		
Antenna dimensions [mm]	180.6 x 180.6 x 180.6	
Connector type	2 x SMA Female	
PCB material	FR4	
Weight [g]	150	

Environmental data		
Operating temperature [°C]	-40+85	
Storage temperature [°C]	-40+85	
Ambient relative humidity [%]	095	
RoHS / REACH compliant	yes / yes	

Additional information

Other mechanical designs, materials or frequency bands are possible on request.

Further customization, electromagnetic simulations and measurements can be offered on request.

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