



5G/4G Indoor/Outdoor Blade Omni Antenna

DBA6171xx Series - 617-960 / 1427-7125 MHz 5G Hinged Swivel Blade Antenna Datasheet

DBA6171xx series 5G swivel blade antennas support harsh environments with both IP67 (outdoor) and non-rated (indoor) configurations.

With excellent performance from 617-7125 MHz the design is ruggedized to support high shock, vibration and humidity environments that may be experienced over the life of the product.

The articulating/hinged/swivel connections allows for a wide variety of installation and mounting options making this an extremely diverse antenna family for IoT or gateway device applications. Options are available with or without embossed TE logo, see page 2 for more details.

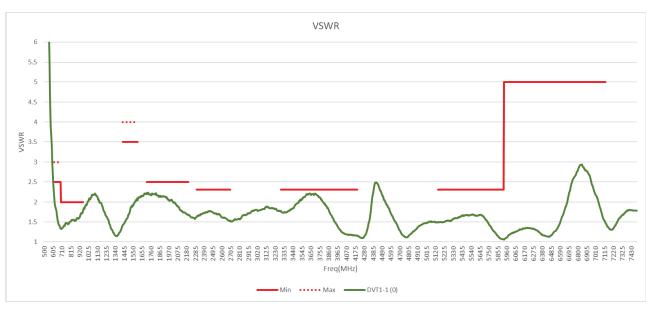
FEATURES AND BENEFITS

- Global current and future 4G/5G coverage from 617-7125 MHz
- Indoor and/or outdoor rated options
- Suitable for private 5G/Cellular installations
- Ideal for light industrial, factory or garden center settings where vibration and humidity may occur
- Ability to rotate and/or point the antennas for maximum coverage and efficiency
- Designed with firm connector resistance to avoid connectors loosening
- Robust hinge mechanism avoids the antenna drooping after installation

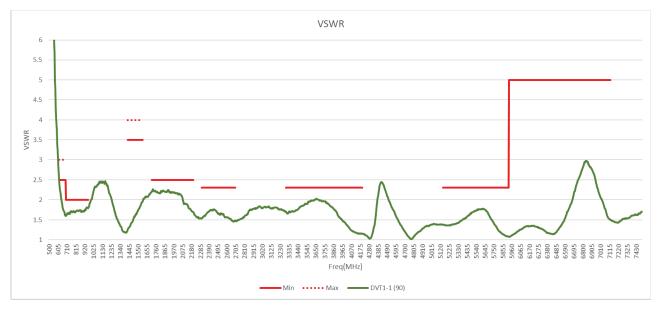
ELECTRICAL SPECIFICATION								
Operating Frequency (MHz)	617-698	698-960	1427-1606	1710-2200	2300-2700	3300-4200	5150-6000	6000- 7125
VSWR - Avg	<1.9:1	<1.7:1	<1.7:1	<2.2:1	<1.7:1	<1.9:1	<1.8:1	<2.0:1
VSWR - Max	<2.5:1	<2.0:1	<3.5:1	<2.5:1	<2.3:1	<2.3:1	<2.3:1	<5.0:1
Peak Gain - Average (dBi)	-0.3	0.2	0.6	0.8	1.4	2.8	3.0	3.0
Peak Gain - Max (dBi)	0.0	1.0	1.0	2.1	2.1	3.9	4.4	4.4
Nominal Impedance (Ohms)	50							
Max Power Handling - Ambient 25°C (W)	5							
Polarization	Linear							
Antenna Type	Dipole							
Azimuth Beamwidth	360°, Omnidirectional							

VSWR

O° Bend Position



90° Bend Position







0° Bend Position

90° Bend Position

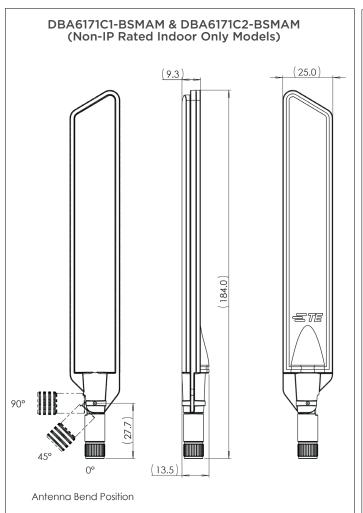
MECHANICAL SPECIFICATION			
Dimensions - width x depth x height - mm (in.)	25 x 9.3 x 184 (0.98 x 0.37 x 7.24)		
Weight - g (oz.)	30 (1.06)		
Number of Ports	1		
Connector	SMA male		
Radome	Polycarbonate, UV-Rated for Outdoor Use		

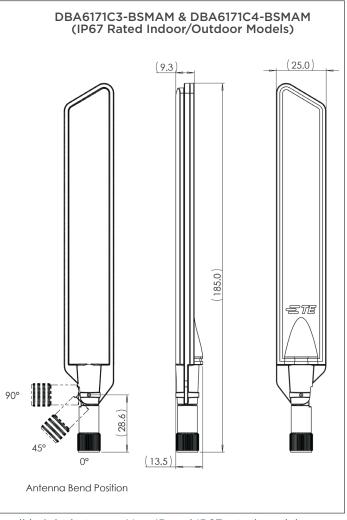
ENVIRONMENTAL SPECIFICATION			
Operating Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)		
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)		
Humidity Rating	MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%±4%		
Flammability Rating	UL94-V2, US-FMVSS		
Mechanical Shock Test Rating	IEC 60068-2-27, Structural Integrity of Mountings		
Vibration Test Rating	IEC 60068-2-64, Stationary Installation, Category 3		
Material Substance Compliance	RoHS Compliant		

CONFIGURATIONS

PART NUMBER	IP RATING	CONNECTOR	WIND SURVIVAL
DBA6171C1-BSMAM Indoor (TE Logo Embossed)	N/A	SMA male	N/A
DBA6171C2-BSMAM Indoor (No Logo)	N/A	SMA male	N/A
DBA6171C3-BSMAM Outdoor (TE Logo Embossed)	IP67	SMA male	60 MPH
DBA6171C4-BSMAM Outdoor (No Logo)	IP67	SMA male	60 MPH

MECHANICAL DRAWINGS

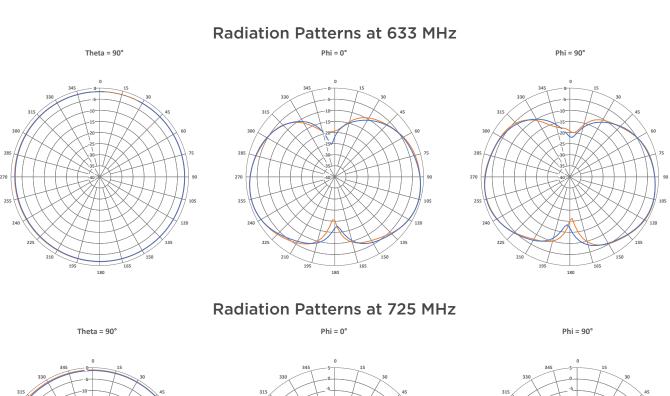


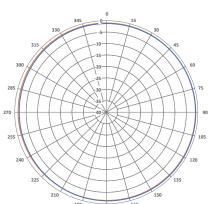


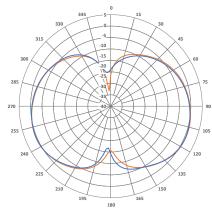
Please note the small difference in connector lengths and overall height between Non-IP and IP67 rated models above.

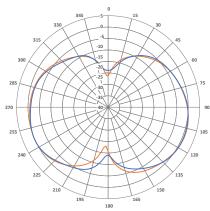
RADIATION PATTERNS



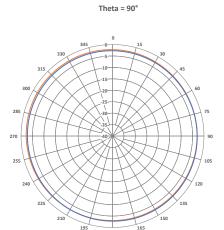


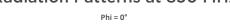


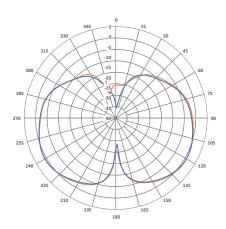


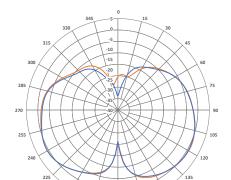


Radiation Patterns at 850 MHz





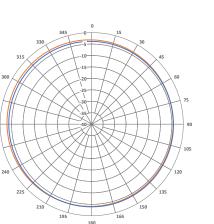




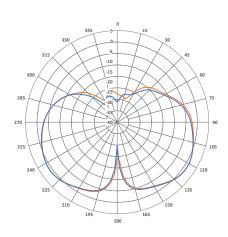
Phi = 90°

Radiation Patterns at 925 MHz

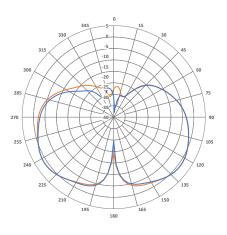
Theta = 90°



Phi = 0°

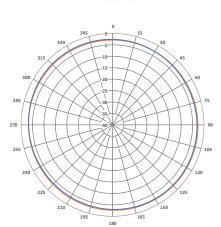


Phi = 90°

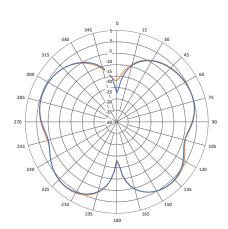


Radiation Patterns at 1448 MHz

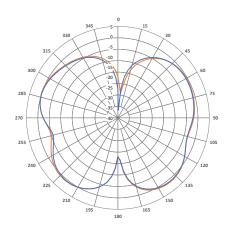
Theta = 90°



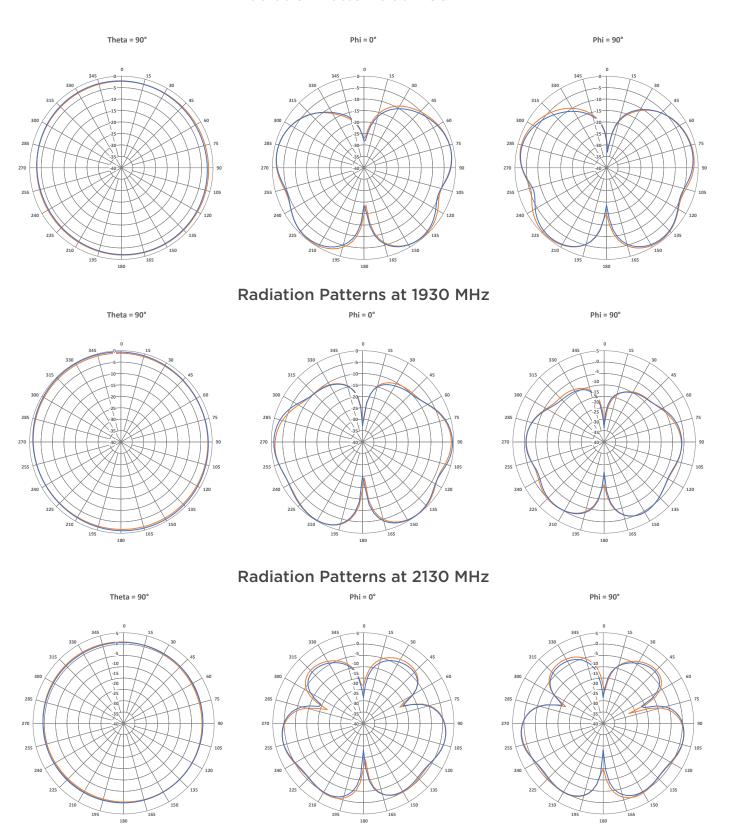
Phi = 0°



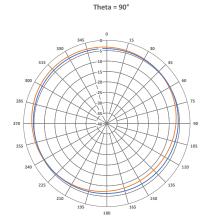
Phi = 90°

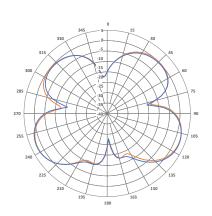


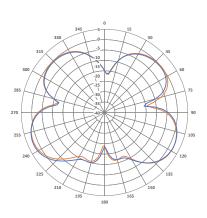
Radiation Patterns at 1730 MHz



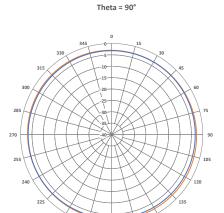
Radiation Patterns at 2310 MHz

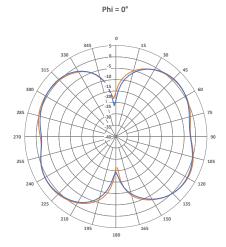


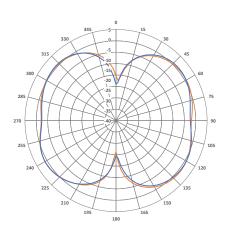




Radiation Patterns at 2450 MHz

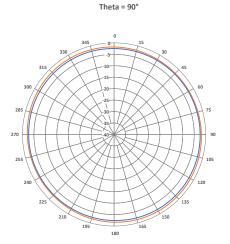


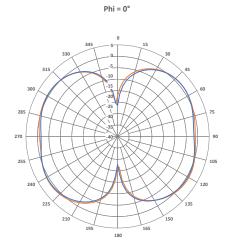


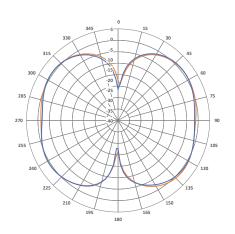


Phi = 90°

Radiation Patterns at 2500 MHz

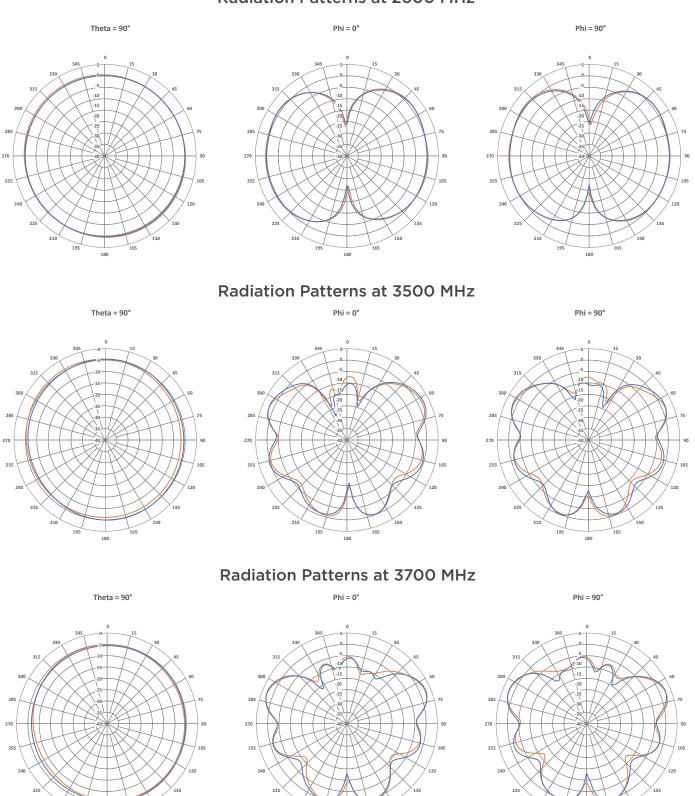




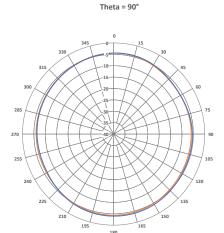


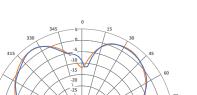
Phi = 90°

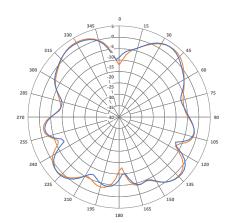
Radiation Patterns at 2600 MHz



Radiation Patterns at 5150 MHz Phi = 0°





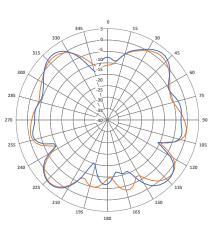


Phi = 90°

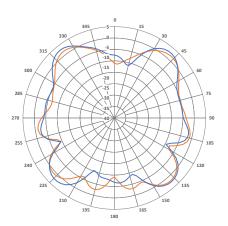
Radiation Patterns at 5450 MHz

Theta = 90°



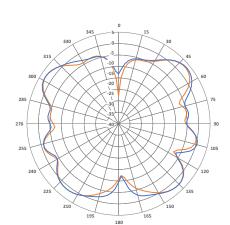


Phi = 90°

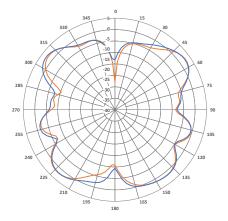


Radiation Patterns at 5725 MHz Phi = 0°

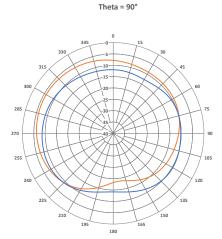
Theta = 90°

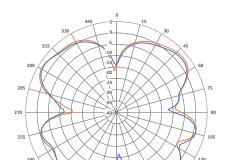


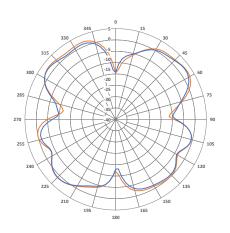




Radiation Patterns at 5925 MHz

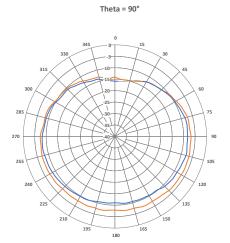


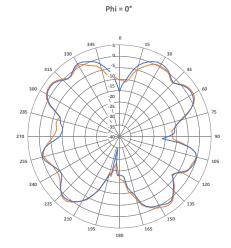


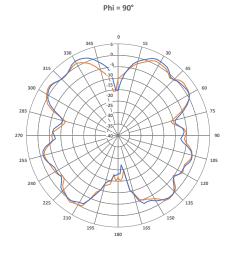


Phi = 90°

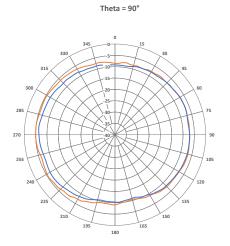
Radiation Patterns at 6525 MHz

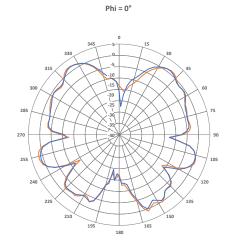


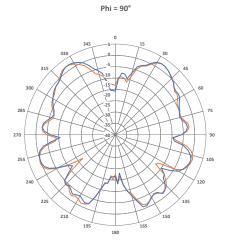




Radiation Patterns at 7125 MHz

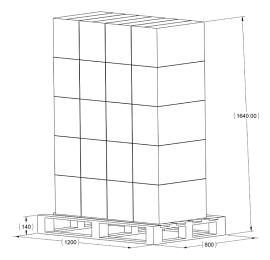




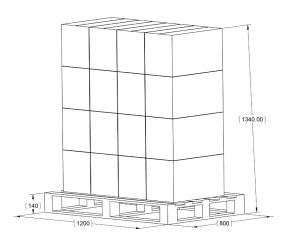


PACKING INFORMATION

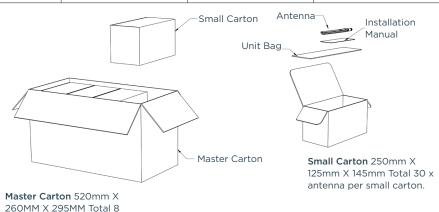
PACKAGING - INDIVIDUAL CARTON



PACKAGING - BULK PACK



PACKAGED DIMENSIONS	UNIT CARTON	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	30	240	3840	4800
Height cm(in)	14.5 (5.7)	29.5 (11.6)	134 (52.8)	164.0 (64.6)
Length cm(in)	25.0 (9.8)	52.0 (20.5)	120 (47.2)	120 (47.2)
Width cm(in)	12.5 (4.9)	26.0 (10.2)	80 (31.5)	80 (31.5)
Est. Shipping Weight kg (lbs)	1.1 (2.4)	9.4 (20.7)	152.4 (336.0)	190.0 (418.9)



TE TECHNICAL SUPPORT CENTER

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