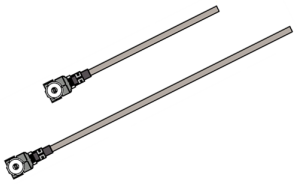
Anaren Integrated Radio

66089 U.FL Antenna Series



66089-xxxx

The 66089 series antennas are designed for quick connection to Anaren Integrated Radio modules, and have been certified to meet "intentional radiator" requirements for low power non-licensed devices (FCC, IC, and ETSI). The 66089 series antennas are intended for applications where an embedded antenna module is not practical—such a radio module mounted inside a shielded enclosure.

Specifications

PERFORMANCE CHARACTERISTICS:

Impedance:	50 ohms
Frequency Range:	See table
Gain:	3 dBI
VSWR:	1.7 max
Radiation:	Omni directional

Module	Band ID	Antenna Element	Center Frequency	FCC (IC)	ETSI
A1101R04C	04	173±1 mm	425 MHz		X
A1101R08C	08	86±1 mm	866 MHz		X
A1101R09C	09	82±1 mm	915 MHz	X	
A25xxE24C A25xxR24C	24	30±1 mm	2.442 GHz	X	X
A110LR09C	89	84±1 mm	898 MHz	X	X

This product is not to be used in any implantable medical device or external medical device intended to regulate or monitor biological functions, including but not limited to devices such as pacemakers, defibrillators, cardiac resynchronization devices, pressure sensors, biochemical stimulators and neurostimulators. ANAREN MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY OF THIS PRODUCT FOR ANY USE OF THIS TYPE. Anaren shall not be responsible for any consequential damages arising from the sale or use of this product for any use of this type. The ultimate user of the

Nomenclature

66089-XX06

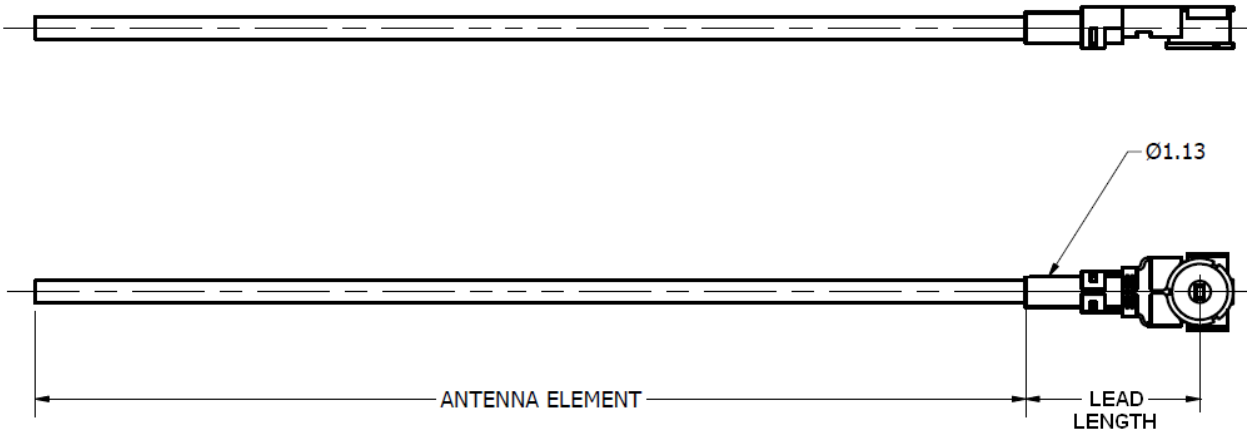
1 2

1 Band	See "Band ID" in table
2 Lead Length	06 = 6mm 'standard' 30 = 30mm 'extended'

To view the entire available family of AIR Modules & Development options, please visit our website at:

http://www.anaren.com/air

Layout



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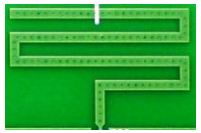
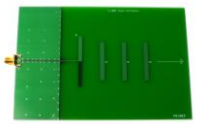
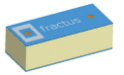
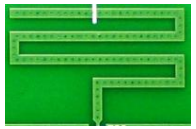
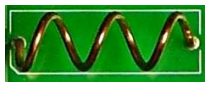
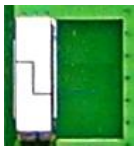
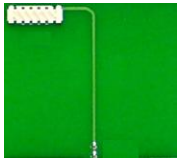
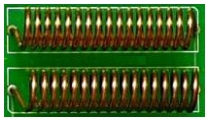
Antenna Selection Quick Guide

DN035

							
Design / Application Note	DN007 *1	AN043 *2	DN004	DN041	DN024	DN034	AN048
Frequency	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz
Typical Efficiency	80%(EB) 94%(SA)	68%(EB)	80%(EB)	65%(Zlight2)	76%(EB) 94%(SA)	72%(SA)	55%(USB)
Bandwidth@ VSWR 2:0	280 MHz	101 MHz	100 MHz	150 MHz	354 MHz (SA)	497 MHz	150 MHz
Dimensions (mm)	26 x 8	15 x 6	46 x 9	45 x 2.5	38 x 25	150 x 100	7 x 3

							
Design / Application Note	DN024 *1	DN023	DN031	DN031	DN033	DN031	DN038 *2
Frequency	868 / 915 / 920 MHz	868 / 915 / 920 MHz	868 / 915 / 920 MHz	868 / 915 / 920 MHz	868 / 915 / 920 MHz	868 / 915 / 920 MHz	868 / 915 / 920 MHz
Typical Efficiency	64%(EB) 98%(SA)	80%(SA)	69%(EB)	64%(EB)	48%(EB)	63%(EB)	66%(EB)
Bandwidth @ VSWR 2:0	88 MHz (SA)	40 MHz	62 MHz	56 MHz	56 MHz	6 MHz	40 MHz
Dimensions (mm)	38 x 25	43 x 20	10 x 28	48 x 8	15 x (5 to 29)	10 x 14	19 x 12

						
Design / Application Note	DN031	DN031 *1	DN031	DN031 *1	DN031 *1	
Frequency	433 MHz	433 MHz	433 MHz	315 MHz	136 - 240 MHz	
Typical Efficiency	20%(EB)	26%(EB)	15%(EB)	15%(EB)	7%(EB)	
Bandwidth @ VSWR 2:0	23 MHz	38 MHz	30 MHz	4 MHz	3 MHz	
Dimensions (mm)	37 x 9	42 x (10 to 29)	15 x (5 to 29)	37 x 9	42 x (22 to 29)	

EB: SmartRF Evaluation Board
SA: Stand Alone

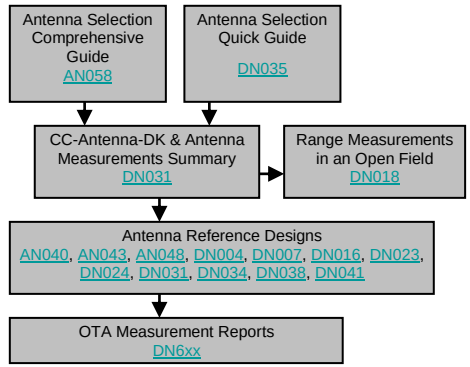
*1 First Choice Recommended Antenna

*2 Second Choice Recommended Antenna

SWRA351A

By Richard Wallace

Antenna Support Documentation



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