

**SPECIFICATIONS**

PARAMETER	PERFORMANCE
Laird Model Number	CMS38606P
Frequency	380-520 MHz 600-960 MHz 1395-1435 MHz 1690-6000 MHz
VSWR (Max)	3.0:1 (380-520 MHz) 2.0:1 (600-960 MHz) 2.0:1 (1395-1435 MHz) 2.0:1 (1690-6000 MHz)
Max Gain	3.1 dBi @ 380-520 MHz 2.9 dBi @ 600-960 MHz 5.4 dBi @ 1395-1435 MHz 7.0 dBi @ 1690-6000 MHz
PIM Test Frequencies	UHF Band (380-384MHz) Low Band Cellular (776-786MHz) High Band Cellular (1870-1910MHz)
Polarization	Vertical
Impedance	50Ω
PIM, 3rd order, 2X20W	<-150dBc
Power	50W @ ambient temp 25°C (77°F)
RF Connector	Model specific
Radome Color	White
Operating Temperature	-30°C +70°C
Storage Temperature	-40°C +85°C
Water/Foreign Body Ingress	IP-67
Antenna Weight	0.8kg (1.76 lbs)
Flammability	UL94-V0

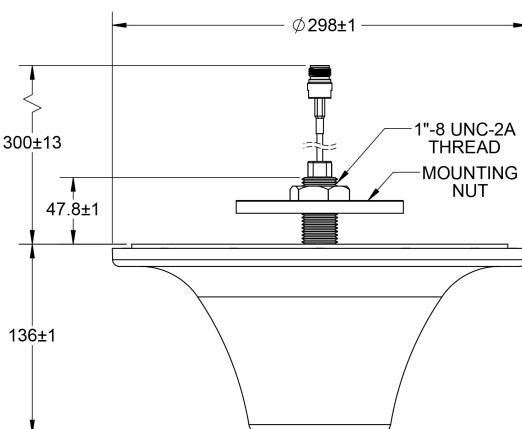


Figure 1



Please read all instructions carefully before attempting to install and use this product.

**SAFETY**

The CMS38606P and all associated equipment should be installed in accordance with all applicable local and national electrical code guidelines to ensure safe operation.

**LOCATION**

For the best results, mount the antenna near the center of the coverage area. A line-of-sight path between the antenna and active floor locations generally works best. Although microwave signals penetrate cubical dividers and interior walls with little attenuation, reinforced block attenuate signals or cause multipath, a condition where reflected signals interfere with the primary signal path. Avoid mounting next to a column or vertical support that could create a "shadow zone" of reduced coverage to one portion of the room.

**PRECAUTION**

For best PIM results:

1. Make sure the connectors are clean and free from any metal flakes/dirt & tighten the connectors using torque wrench according to connector torque specification below.

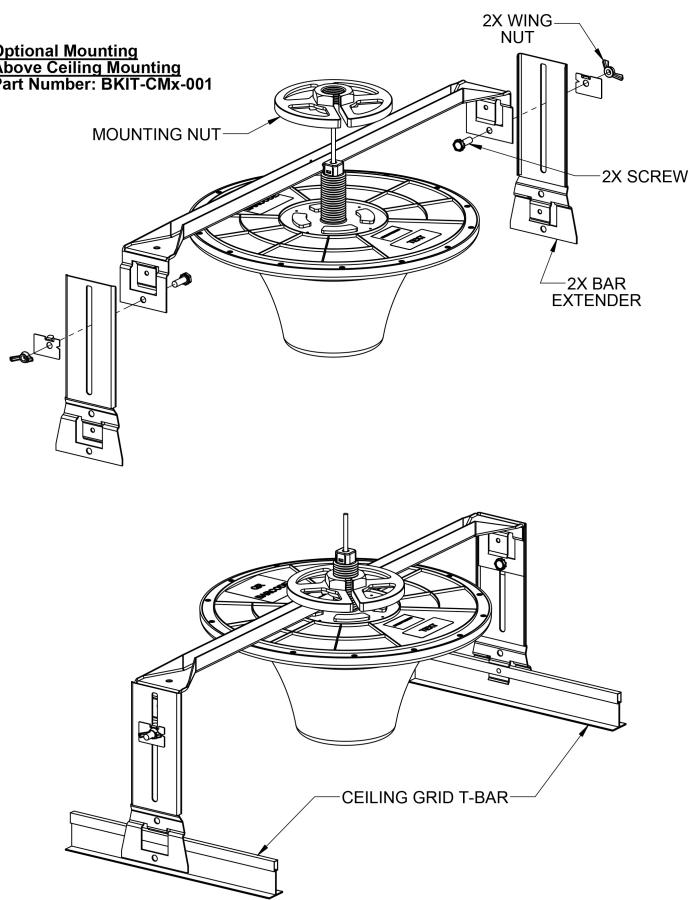
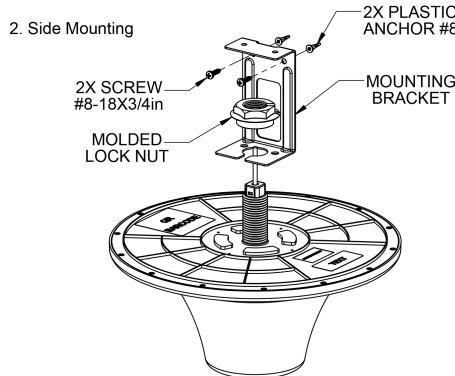
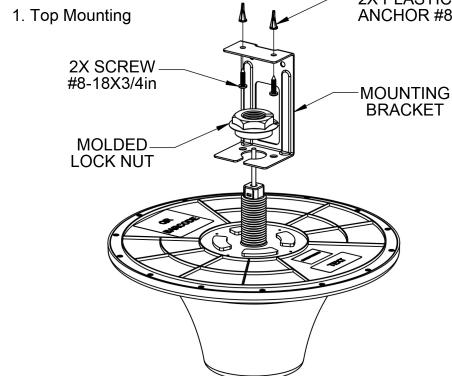
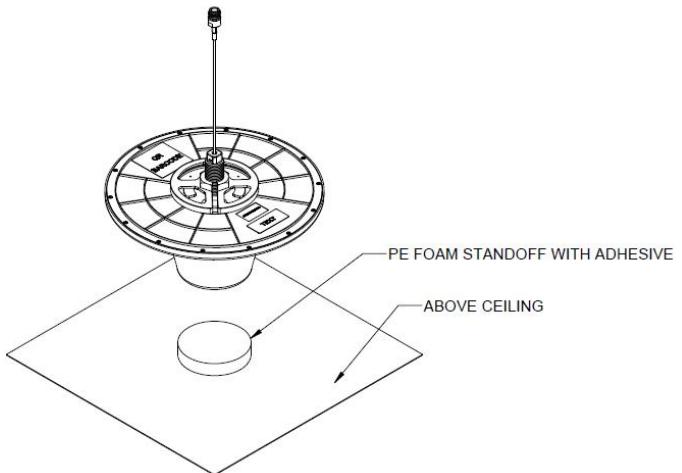
Connector	Torque Value
Type-N	2.8 N·m (25.0 in-lbf)
4.3-10	5 N·m (44.3 in-lbf)
Mini-Din 4.1-9.5	10.16 N·m (90.1 in-lbf)

2. Avoid extreme bending to the cable. Do not remove the dust cap from connectors when not in use.

**STANDARD MOUNTING**

A threaded post on the back of the antenna and a supplied mounting nut are the primary mounting method when access is available to both sides of the mounting surface, such as a suspended ceiling tile. Mark the desired mounting location on the tile and cut a Ø40mm (1.57") hole for threaded post. Feed the cables through the hole and secure the antenna with the mounting nut. (See figure 1).

## OPTIONAL MOUNTING

 Optional Mounting  
Above Ceiling Mounting  
Part Number: BKIT-CMx-001

 Optional Mounting  
Hard Ceiling Mounting  
Part Number: HKIT-CMx-002

 Optional Mounting  
Above Ceiling Mounting  
Part Number: HKIT-CMx-004


**Note:** The optional mounting kits are **NOT INCLUDED** with the antenna; it needs to be purchased separately

**QR CODES**

There is a unique QR Code placed on the back of each antenna, so system managers can simply scan the code with a smartphone and instantly see all of the needed performance data. The solution provides fast, accurate data and allows customers to instantly track even more information than they could previously review.

TEXT EMBEDDED IN QR BARCODE:

CMS38606P-XXX-SNYYWWZZZZ  
VSWR: V@380-520MHz, V@600-960MHz, V@1395-1435MHz, V@1690-6000MHz

LOW PIM 380-520 MHz: -L dBc, 600-960 MHz: -L dBc, 1690-2700 MHz: -L dBc

**QR CODE:**

CMS38606P-XXX-SNYYWWZZZZ = SERIAL NUMBERING

**V** = VALUE OF VSWR @ FREQUECY BANDS (380-520MHz, 600-960MHz, 1395-1435MHz, 1690-6000MHz).

**L** = PIM Performance Level

