

Parameter	Performance
TE P/N	CFS69271-FSMAF
Frequency	698 - 960MHz, 1710 - 2700MHz
Gain	1.5dBi (698- 960MHz)
	3dBi (1710 – 2170MHz)
	3.6dBi (2500-2700MHz)
Average Efficiency	80% (698 - 960MHz)
	85% (1710 – 2170MHz)
	85% (2500-2700MHz)
Polarization	Linear, Omnidirectional Radiation Pattern
Nominal Impedance	50 Ohms
Max Input Power	50 Watts
VSWR (Max)	2:1 (698-960MHz)
	2:1 (1710-2170MHz)
	2.15:1 (2500-2700MHz)
RF connector	SMA Female
Part Weight	63g (excluded hardware kit)
Dimension	100 x164x1.8mm
Operating/Storage Temperature	-40°C to +70°C
Color	White Matte Coating



HARDWARE KIT FOR MOUNTING
 3 SET TO BE PROVIDED
 (REFER 2ND AND 3RD PAGE FOR MOUNTING/INSTALLATION INSTRUCTION)

TOLERANCE (UNLESS STATED)	X ± 0.3	SYM	ECO/DESCRIPTION	DATE	CK	APP		DRAWN BY: CHIN			
	XX ± 0.13							B1 CRN#786		25/2/13	HANG
- PRODUCT & PROCESS MUST COMPLY TO LT-GES - MISSING INFORMATION REFER TO 3D DATA - DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE - THIS DRAWING WAS GENERATED VIA PRO/ENGINEER - PRINT NOT TO SCALE		F02	ECO-19-00127	06MAR19	CYH	WTN	CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF PROPRIETARY NATURE. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF LAIRD TECHNOLOGIES, ANTENNA SBU	DWG. NO.: CFS69271-FSMAFMO	PG. 1/1	REV F02	
								DESCRIPTION: CFS69271-FSMAF	MATERIAL: NA		
										PROJECT NO. W100-P015	DATE: 11/01/12

LTE-MicroSphere™ Multi-Band Omnidirectional Indoor Antenna CFS69271-FNF/CFS69271-FSMAF

MOUNTING

- 1) These antennas are intended to be mounted on the ceiling of typical commercial/office building wireless communication systems. Standard practices for installation of equipment in commercial environments, including all safety practices, should be followed.
- 2) Recommended ceiling cutout for installation:
 - A) For removable dropped ceiling panel, make 4 holes as per Figure.1.
 - B) For fixed dropped ceiling, where plenum area is difficult to be accessed, make cutout pattern as per Figure.2.

Note: Refer 2nd page for 1-1 template of this cutout pattern

- 3) This antenna must be installed with provided hardware kit
- 4) Pre-install hardware kit: 3 set of Nylon screws, metal speed nuts and cap washers through the ceiling panel as per Figure.3
- 5) Slot in the antenna as per arrow direction.
- 6) Secure the screw and put on the screw head cap.
- 7) Do not place the antenna against a metal plate (ground plane) or close to metallic objects. The minimum distance from a metal plane for correct antenna operation is 89mm (3.5 inches).
- 8) Recommended tighten torque for connector: 0.67Nm (6 Lbf.in).

SPECIFICATIONS

The Multi-Band Antenna is designed to provide simultaneous omnidirectional coverage in the 698~806MHz Band, AMPS 806~896MHz, GSM 880~960MHz, DCS 1710~1880MHz, PCS 1850~1990MHz, UMTS 1920~2170MHz, ISM 2400~2500MHz, UMTS Extension 2500~2690MHz bands for indoor applications. All bands may be transmitted or received without interference from the other but requiring only one connection.

Frequency Range: 698~960MHz, 1710~2700MHz

Polarization: Linear

Peak Gain: 1.5dBi (700~960MHz), 3dBi (1710~2170MHz), 3.6dBi (2500~2700MHz)

CONNECTOR: SMA FEMALE for CSF69271-FSMAF

N-TYPE FEMALE for CSF69271-FNF

VSWR: <2.0:1

SAFETY

Do not install the antenna other than as described. Ensure electrical connections are proper and threaded connectors are tightened per the manufacturer's specifications. Do not modify the antenna by removing material, drilling, grinding, bending or any other operation which changes the shape or form of the antenna. Ensure the mounting screws are secured by the nuts provided against the back of the ceiling tile to prevent the

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antenna from falling or dangling from the ceiling. Obviously damaged antennas should be removed from service and replaced.

FIGURE 1.

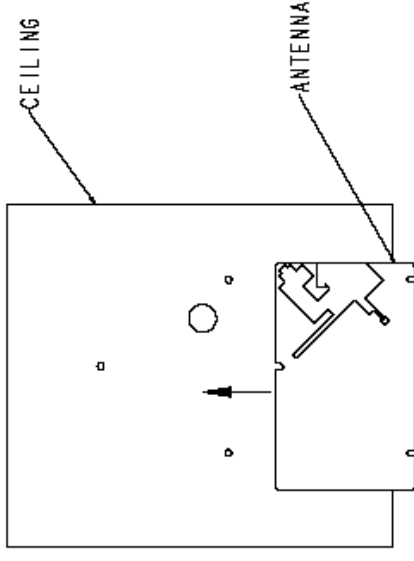


FIGURE 2.

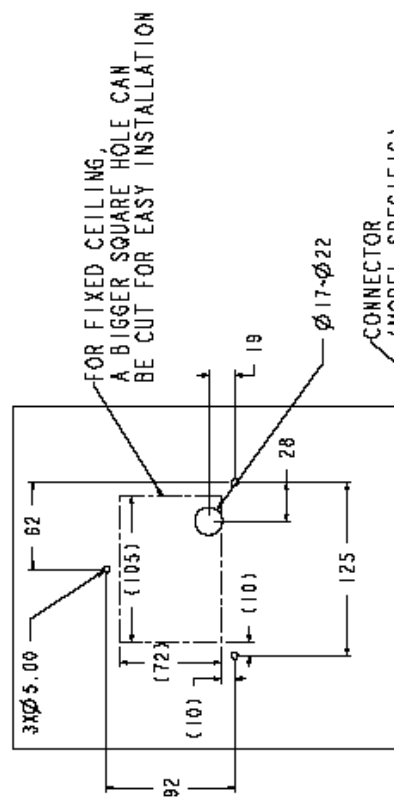
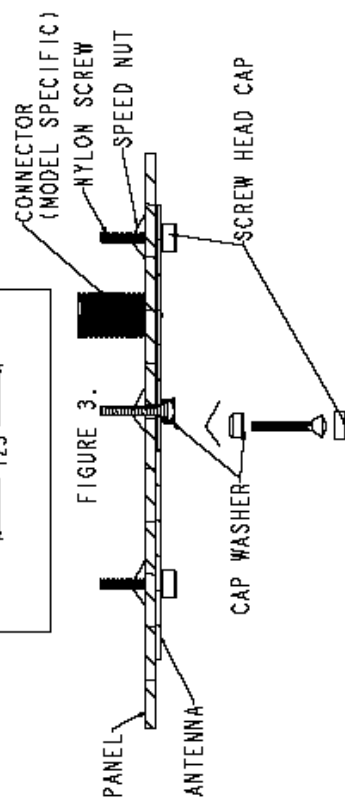


FIGURE 3.



CEILING DRILL/CUTOUT TEMPLATE

