



Multi-Band Patch Antenna

GSM/GPS/UMTS
 Patent Pending

DESCRIPTION:

Patch antenna with GSM/UMTS and active GPS With Resistor 10KOhm. FAKRA(C+D) Connectors. Operates at 824-2170 MHz

Electrical Specifications GSM/UMTS

Frequency Band [MHz]	824-894	880-960	1710-1880	1850-1990	2110-2170
Input Connector Type	Fakra (D) violet with cable RG-174 1.6m or 0.75m				
Polarization	Linear				
Antenna Structure	Port 1				
Impedance	50 Ω				
VSWR (with 10KOhm Resistor)	< 2:1	< 2:1	< 1.8:1	< 1.8:1	< 1.8:1
Gain Peak	3.5 dBi	3.5 dBi	2.5 dBi	3 dBi	2.5 dBi
Efficiency 0.75m	53%	50%	45%	50%	50%
Efficiency 1.6m	43%	40%	42%	43%	40%

Electrical Specifications GPS Active Antenna

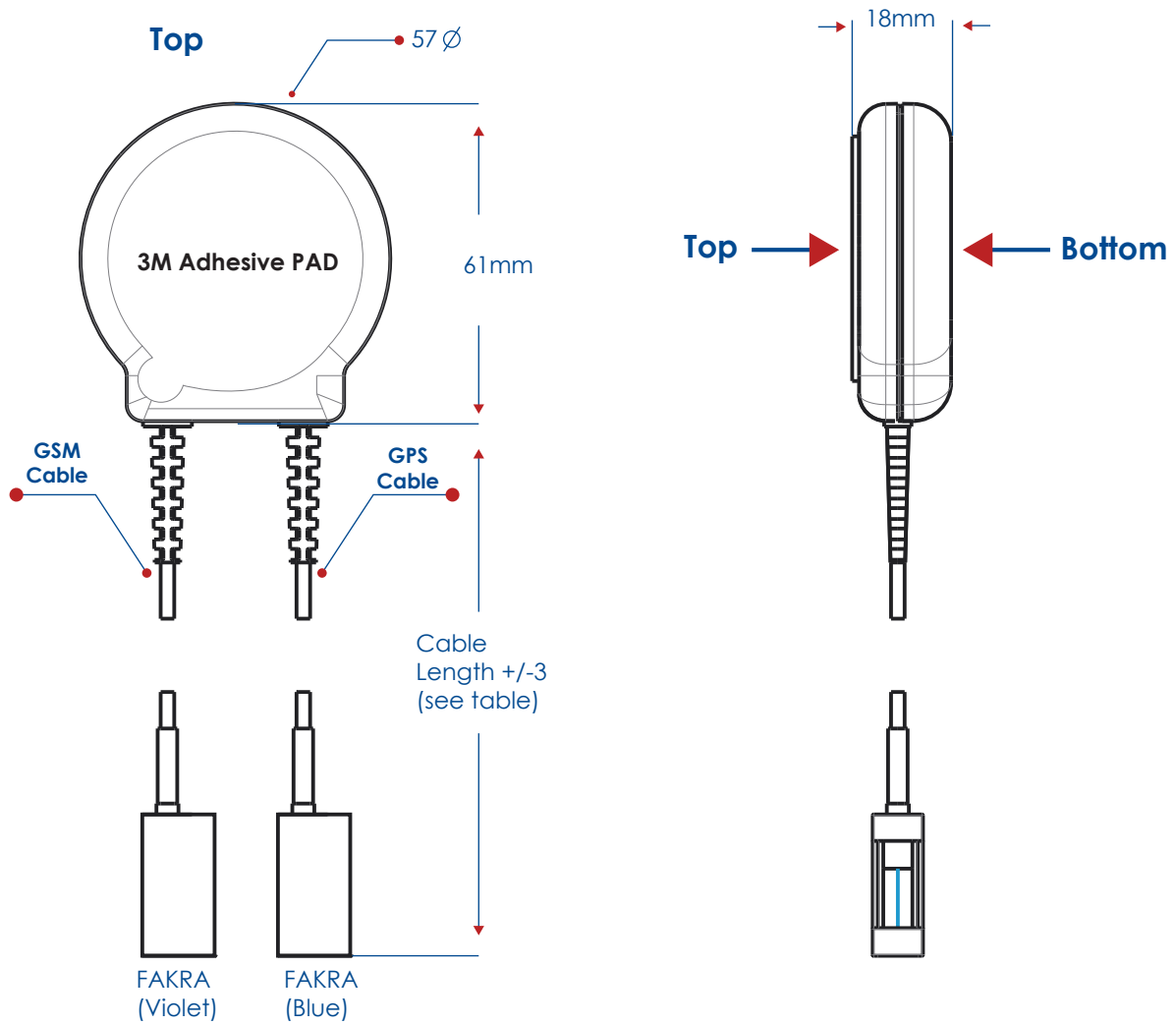
Input Connector Type	Fakra (C) blue with cable RG-174 1.6m or 0.75m	
Operating Frequency	1575.42MHz±3 MHz	
VSWR	1.5:1	
Band Width	±5 MHz	
Impedance	50 Ω	
Peak Gain	> 5 dBic Based on 7×7cm ground plane	
Polarization	RHCP	
LNA/Filter		
LNA Gain	28 dB	
Noise Figure	1.5 dB	
Filter Out Band Attenuation (f ₀ =1575.42 MHz)	7dB Min f ₀ ± 20MHz	
	20dB Min f ₀ ± 50MHz	
	30dB Min f ₀ ± 100MHz	
VSWR	< 2.0:1	
DC Voltage	2.7V ~ 6.0V	
DC Current	14.5mA	

Mechanical Specifications

Operating Temperature	-40° to 85° C (-40°F to 185°F)
Environmental Conditions	Indoor / Outdoor
Antenna Weight	65 gr (0.15 lbs)
Dimensions (diameter/Height)	57 mm / 18 mm (2.24" / 0.71")
Flammability Rating	UL 94-V0
RoHS	Compliant
Radom Material	PC/ABS. Color: Black
Ingress Protection	IP65

Release Date: 25, Nov, 2015; Revision: S-8; Patent Pending

Antenna Part Number	Cable Length
02112213-05941	0.75 m
02112213-05941-1	1.60 m



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