



NEW! LOW PROFILE 5G-FR1, WIFI-6E MULTIBAND ANTENNA SERIES

The new low profile SKF5G Antenna series, specially designed to meet the demanding requirements for numerous applications, including fleet management, FirstNet/public safety, DSRC/CV2X and more. The SKF5G offers an attractive profile, rugged construction, and reliable performance across all bands.

The SKF5G can accommodate up to 6 cables, and can be configured for 2x MIMO 5G FR1, 3x MIMO WiFi-6E and GNSS L1 + L2. The SKF5G series can be custom ordered in a variety of configurations allowing for flexibility across numerous industries and applications. Each radiating element is designed for high performance, wideband coverage, enabling our users to get the most out of their 5G-FR1 and WiFi 6E gateways.

The SKF5G was designed with easy installation in mind. At only 52.5 mm in width, the narrow footprint allows for the antenna to be placed between the roof ribs on new vehicles without the need for an adapter or gasket. Driven by demand for higher data rates and new wireless platforms such as WiFi 6E and 5G, Pulse's new SKF5G antenna offers a comprehensive solution to your antenna needs.

FEATURES

- Superior Build quality and rugged construction
- Low-profile; small footprint
- Custom configurations available for design flexibility
- 5GFR1 & WiFi-6E MIMO configurations reduce the number of antennas required
- Wideband coverage across both 5G-FR1 & WiFi-6E frequency bands
- Greater than 2dBi gain across all frequency bands
- Optimized antenna elements for superior connectivity

2021

Electrical specifications @ 25° C – Operating Temperatures – 40°C to +80°C

Frequency Bands 2x5G-FR1 + 3xWIFI-6E + 1xGNSS (L1+L2)

Frequency (MHz)	Frequency Bands	Gain (dBi)	Average Efficiency	Return Loss	Antenna type	Nominal Impedance (Ω)	Radiation pattern	Polarization	Power withstanding (W)
617-960	5G-FR1	>2	>30%	-5	Monopole	50	Omni	Linear	5
1710-6000	5G-FR1	>2	>50%	-10	Monopole	50	Omni	Linear	5
2400-2500	WIFI-6E	>2	>50%	-10	Monopole	50	Omni	Linear	5
4900-7125	WIFI-6E	>2	>50%	-10	Monopole	50	Omni	Linear	5
1226-1229	GNSS L1	>2	>50%	-10	Patch	50	Directive	RHCP	5
1560-1610	GNSS L2	>2	>50%	-10	Patch	50	Directive	RHCP	5
GNSS LNA									
Frequency (MHz)	Frequency Bands	LNA Gain (dB)	Operating Voltage (Vdc)	Current consumption (mA)	Noise figure (dB)				
1226-1229	GNSS L1	38±3	3.5-5.5	< 15	< 1.5				
1560-1610	GNSS L2	38±3	3.5-5.5	< 15	< 1.5				

Mechanical Specifications

Orderable PN: SKF5G6231DM
*(other configurations available)

Size (mm)	Color	Weight (grms)	Connector Type	Ingress Protection	Cable length (mm)
178.3 x 52.5 x 62	Black	550	SMA or Customized	IP67	5181

Other Great Products from Pulse Electronics



Embedded Antennas Ceramic/ Helical/FPC/Stamped

Embedded ceramic chip and patch, composite, Helical, FPC and Stamp metal antennas for effective miniaturization and simplicity



3D Antennas LDS/LAP/FluidANT

Get Inspired of 3D Shapes by using LDS, LAP & FluidANT antenna design and manufacturing process.



Internal Antennas FPC/ PCB/ NFC/WPC/LCP Antennas

Pre-optimized performance with common plastic housing. Compact dimensions and adhesive mount. Providing high efficiency solutions of NFC and WPC compliance



External/ In-Building Antennas

Reliable blade/ stick antennas for routers & gateways. Cutting edge design and performance proven DAS antennas for in-building wireless and public-safety.



IPD RF Components - LTCC

LTCC based BPF, LPF, Balun, Diplexer, Triplexer, Balanced BPF, and Coupler



Outdoor Antennas

Weather proof portable and fixed outdoor antennas for portable radio and data collecting purposes.



Vehicular Antennas

Extensive ruggedized, tamper-proof and aesthetically pleasing legacy Larsen and multiband antennas for public safety, transportation, and other applications.



Cable & Mounting Solutions

Support NMO and various mounting types with custom cable types and connector selections.