

# Altelix LC06 Series

## 0-6.4 GHz Coaxial Gas Tube Lightning Protectors


- Broad Bandwidth DC-6.4 GHz
- High Surge Capability
- Replaceable Gas Tube Element





## Overview


The Altelix LC06 Series are high-performance coaxial Lightning Protectors that operate over the frequency range of DC-6.4 GHz. They use a gas discharge tube to shunt electrical surges and transients to ground thus protecting sensitive communications equipment from surge and lightning events.


## Models


	Model	<b>LC06NFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	N-Female to N-Female Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.4 x 1.3 x 0.9 In. (60 x 33 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.31 In. (7.93 mm)
*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V		

	Model	<b>LC06NMFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	N-Male to N-Female Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.6 x 1.3 x 0.9 In. (67 x 33 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.31 In. (7.93 mm)
*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V		

	Model	<b>LC06SMSF</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	SMA Male to SMA Female
	Ground Lug	10 AWG Max.
	Dimensions	1.9 x 1.3 x 0.9 In. (48 x 33 x 23 mm)
	*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V	

	Model	<b>LC06SFSFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	SMA Female to SMA Female Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.0 x 1.1 x 0.9 In. (51 x 28 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.12 In. (3.17 mm)
*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V		

	Model	<b>LC06RSFRSFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	RP-SMA Female (Jack) to RP-SMA Female (Jack) Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.0 x 1.1 x 0.9 In. (51 x 28 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.12 In. (3.17 mm)
	*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V	


	Model	<b>LC06RSMRSFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	RP-SMA Male (Plug) to RP-SMA Female (Jack) Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.0 x 1.1 x 0.9 In. (51 x 28 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.12 In. (3.17 mm)
	*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V	

	Model	<b>LC06RTFTFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	RP-TNC Female (Jack) to RP-TNC Female (Jack) Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.2 x 1.1 x 0.9 In. (56 x 28 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.12 In. (3.17 mm)
	*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V	

	Model	<b>LC06TMRTFB</b>
	Frequency Range	DC-6.4 GHz
	VSWR	1:1.2 typ.
	Insertion Loss	0.4 dB typ.
	Impedance	50 Ohm
	Gas Tube DC Breakdown Voltage*	230V+/-20%
	Gas Tube Impulse Breakdown Voltage	1000V 20%
	Gas Tube Insulation Resistance	2000 MegOhm min.
	Rated Surge Current	20 KA Max.
	Connectors	RP-TNC Male (Plug) to RP-TNC Female (Jack) Bulkhead
	Ground Lug	10 AWG Max.
	Dimensions	2.3 x 1.1 x 0.9 In. (58 x 28 x 23 mm)
	Max. Panel Thickness (Bulkhead Connector)	0.12 In. (3.17 mm)
	*Replacement Gas Tubes Available: 90V, 230V, 350V and 600V	

## Replacement Gas Tubes

The following are replacement Gas Tubes for the Altelix LC06 Series coax protectors. These replacement gas tubes are sold 2 per bag (2-Pack).

	Model	DC Breakdown Voltage
	LGT6-090-2PK	90V
	LGT6-230-2PK	230V
	LGT6-350-2PK	350V
	LGT6-600-2PK	600V

## Additional Protector Products

### Coaxial Lightning Protectors

- 0-3 GHz Gas Tube Protectors
- 698-2500 MHz Quarter Wave Protectors
- 2400-2500 MHz Quarter Wave Protectors
- 5 GHz DC Short Protectors

### Data Line / Ethernet Protectors

- Indoor CAT5 PoE Ethernet Protectors
- Outdoor CAT5 PoE Ethernet Protectors
- Indoor CAT6 PoE Gigabit Ethernet Protectors
- Outdoor CAT6 PoE Gigabit Ethernet Protectors

Visit [www.ALTELIX.com](http://www.ALTELIX.com) for a complete listing of all available Surge Protection products.