

L3211

Barrel Booster

Tailored specifically for wireless camera-back applications, the small, lightweight and easy to use L3211 Barrel Booster design allows direct connection to the RF output from a range of Vislink transmitters. The L3211 includes ALC (Automatic Level Control) providing a constant RF output power for all transmitter power level settings. The L3211 has a wide DC operating range (9-28V) and can be powered via the RF input connector* or using the optional Lemo power cables, available from Vislink. The Lemo power cables provide an option to connect to the Lemo power socket on the wireless transmitter or to the D-Tap adaptor from an IDX or Anton Bauer battery plate.

This amplifier incorporates Pre-Distortion correction for improved adjacent channel rejection, integral harmonic filtering and a power save mode. The Barrel Booster is an essential addition for any wireless camera system requiring extended range capabilities.

*L3211-2027 and L3211-3438 only.

*Switchable phantom power to the L3211 barrel booster is provided. However, when used with the Clip-On 4 and L1700 wireless camera systems, we recommend using the optional D-TAP cable.



Key Features

- Boosts RF transmitter power for extended range.
- Provides optimal trade-off between transmit power, DC power consumption and spectral efficiency.
- Small, lightweight & robust construction.
- Designed to mate directly to the range of camera back transmitters.
- Incorporates correction for improved adjacent channel rejection.
- Includes input and output RF harmonic filters to ensure regulatory compliance.
- ALC (Automatic Level Control) maintains a constant RF output for all transmitter settings.
- RF output fully protected against mismatch damage.
- Powered via RF input connector or external Lemo connector.
- Power save mode when RF muted.
- Wide DC (9-28V) operating range.
- Tri-colour LED indicates unit status and RF output mode setting.

Specifications

Environmental

Operating Temperature (Portable Equipment)

- -10°C to +50°C (14°F to 122°F)

Storage Temperature

- -20°C to +80°C (-4°F to 176°F)

Humidity

- 95%
- Non-Condensing

IP Rating

- IP 54

Mechanical

RF/DC Input Connector

- 50Ω N-Type (M)

RF Output Connector

- 50Ω N-Type (F)

Power Connector

- 6-Pin Lemo Socket

Phantom Power

- Applied to RF Input Connector

Weight

- 0.32Kg (0.7 lbs.)

Length

- 106mm (4.1") (Inc. connectors)

Diameter

- 62mm (2.4")

Status Indicator

- Green (DC Power/ALC OK)
- Orange (DC Power OK/Fixed Gain)

Power Connector

6-Pin Lemo Socket L3211 Socket

- EEG.OB.306 CLV

Mating Plug

- FGG.OB.306 CLA (straight)
- FHG.OB.306 CLA (right-angle)

Pin Out

- 1 & 2 = GND,
- 3 & 4 = +VE
- 5 & 6 = NC

NOTE: When operating the barrel booster in the 'Fixed Gain' mode the RF output power is no longer controlled by the barrel booster's ALC and therefore it is the operator's responsibility to ensure that the RF drive into the barrel booster is at an appropriate level not to cause over-drive or damage and to maintain regulatory compliance.

Electrical

At 20°C (± 5°C ambient).

Parameters	Part No./ Conditions	From	-	To	Units	Comment
Frequency Range	L3211-0405	0.4	-	0.5	GHz	*Includes pre-distortion correction
	L3211-2027	*2.0		*2.7		
	L3211-3438	3.4		3.8		
	L3211-4050	4.0		5.0		
	L3211-6475	6.4		7.5		
RF Output Power	ALC Mode	+28 (0.63)	28/75 (0.75)	+30 (1.0)	dBm (W)	-
RF Input Power Range	ALC Mode	+10 (10)	-	+24 (250)	dBm	(Mw)
Gain	Fixed Gain Mode	10	-	15	dB	-
Spectral Regrowth	Adjacent Channel	-	-	-35	dBc	-
	Alternate Channel	-	-	-40	dBc	-
Spurious	25 MHz - 1 GHz	-	-	0.25(-36)	Nw (dBm)	EN 302 064-1 §7.4.6
	1 GHz - 27 GHz	-	-	1(-30)	Nw (dBm)	
Return Loss	-	10	-	-	dB	-
RF Input Damage Level	CW	-	-	+27 (0.5)	dBm (W)	-
	Pulsed	-	-	+36 (4)	dBm (W)	-
Static Protection	Direct Discharge	-	-	8	kV	IEC61000-4-2
	Air Discharge	-	-	15	kV	IEC61000-4-2
Temperature Rise	Above Ambient	-	32	-	°C	IEC60417-5041
Supply Voltage	-	9	-	28	V	-
Power Consumption	RF OFF	-	7.5	-	W	-
	RF ON	-	14	-	W	-

Compliance

Standard	Class/Category	Version
ETSI EN 302 064-1	Category 1	V1.2
ETSI EN 301 489-28	Class B	V1.1

Optional Power Cables

9003434	Barrel Booster ALC Power Cable (Lemo straight - L1500)
9003435	Barrel Booster ALC Power Cable (IDX D-TAP)
9003437	Barrel Booster ALC Power Cable (Anton Bauer P-TAP)
9003438	Barrel Booster ALC Power Cable (Lemo right-angle - L1500)
9007896	Barrel Booster ALC Power Cable (XLR 3pin)
9008305	Barrel Booster Power Cable (Fixed Gain Lemo - L1500)
9008304	Barrel Booster Power Cable (Fixed Gain IDX D TAP)
9011941	Barrel Booster Power Cable (75 cm un-terminated)