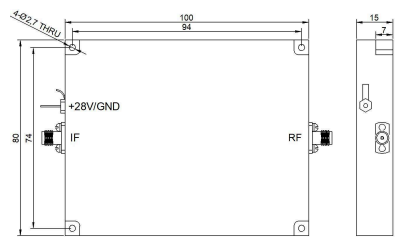


6–8.3 GHz Upconverter with 3.5–5.8 GHz IF

SMA upconverter with at least 30 dB gain, internal 11.8 GHz LO synthesis and 160 mA typical current from a +28 V supply.



Electrical specifications

Parameter	Value	Unit	Notes
RF output frequency	6–8.3	GHz	-
IF input frequency	3.5–5.8	GHz	-
Upconversion gain	≥30	dB	Minimum: 30 dB.
Saturated output power (Psat)	≤5	dBm	Upper bound stated in the source; not minimum output capability. Maximum: 5 dBm.
Output spurious	≤−40	dBc	At RF output power 0 dBm. Maximum: −40 dBc.
IF leakage rejection	≥40	dBc	Minimum: 40 dBc.
Supply voltage	+28	VDC	Stated +28 V supply; 36 V maximum. No typical qualifier is inferred. Maximum: 36 VDC.
Supply current	160	mA	Typical: 160 mA.
Internal LO frequency	11.8	GHz	-
Internal reference frequency	50	MHz	-

Environmental limits

Parameter	Value	Unit
Operating temperature	−40–+70	°C
Storage temperature	−40–+85	°C

Interfaces and contacts

Parameter	Value	Unit
IF input connector	SMA	-
RF output connector	SMA	-
Power interface	+28 V / GND (Supply uses a feed-through capacitor; ground uses a metal grounding tab.)	-

Mechanical specifications

Parameter	Value	Unit
Body dimensions	100 × 80 × 15	mm
Mounting-hole center spacing	94 × 74	mm
Mounting holes	4 × Φ2.7 (Through holes.)	mm

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.