

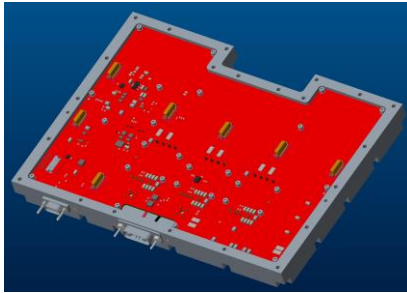


Model Number: A X X X X X X

Intech microwaves s.r.l.

Sede Legale e Operativa: Via Giacomo Peroni 400, 00131 Roma (RM) – Italy
 Cap. Soc. € 80.000,00 – P.IVA 12934711008 – REA RM1411466
 Tel: +39 06 4568 3104 - Email : info@intech-mw.com PEC: intech.microwaves@pec.it

800W DC-DC Converter



Features

- 800 W Output Power
- Efficiencies as high as 90%
- Targeted for the IMW X Band SS HPAs
- Military and Commercial Radar Applications

IMW Model AXXXXXX is an 800 W output power DC-DC converter for the IMW X Band SS HPA.

Technical Specifications @ 25°C

Nominal supply voltage [V]		Steady state		Overvoltage transient [V]
		Normal voltage range [V]	Abnormal voltage range [V]	
+48		38 ÷ 55	36-60	65
Supply Voltage [V]	Voltage Transient & Spike [V]	Ripple and Spurious [V]	Absorbed Peak Current [A]	Absorbed Average Current [A]
+48	< 65 pk	< 1 pp	≤ 23	< 13

Supply Voltage [V]	Tolerance ± [V]	Voltage Transient & Spike [V]	Ripple and Spurious [V]	Max Output Current [A]	BITE Control Yes/No
+50 (*)	0.5	< 2 pk	< 0.05 pp	16(80 Peak)	Yes
+28	0.5	< 2 pk	< 0.05 pp	0.7(3.5 Peak)	Yes
+12	0.12	< 0.5 pk	< 0.1 pp	0.5	Yes
+5_Aux	0.15	< 0.2 pk	< 0.05 pp	1	Yes
+5	0.1	< 0.1 pk	< 0.05 pp	1	Yes
-5	0.1	< 0.1 pk	< 0.02 pp	50m	Yes
-8	0.08	< 0.1 pk	< 0.05 pp	0.8	Yes

(*) Note: The 28 and the 50 power outputs can be adjusted in the range of 26 to 32 Volts and 45 to 51 Volts by means of a special trimmers on board.

Model Number: A X X X X X

Intech microwaves s.r.l.

Sede Legale e Operativa: Via Giacomo Peroni 400, 00131 Roma (RM) – Italy
Cap. Soc. € 80.000,00 – P.IVA 12934711008 – REA RM1411466
Tel: +39 06 4568 3104 - Email : info@intech-mw.com PEC: intech.microwaves@pec.it

Mechanical Specifications

Case Dimensions	250mm(L) x 178mm (W)x20 mm (H)
Case Material	Aluminum Alloy
Case Finish	TIN Plate
Connectors	
Control/Interface Connector	Micro D-Subminiature socket 15 pin connector
DC POWER	D-subminiature 7 pin Combo Male connector
Output Connector	HAR-FLEX STRT FEMALE 16 pin
Weight	0.5 Kg (max)
Grounding	Chassis
Outline Drawing	

Environmental Specifications

Ambient Operating Temperature	-40°C to +70°C	—
Absolute Max Baseplate Temperature	+90°C	—
Storage Temperature	-55°C to +100°C	—
Cooling	Heat Sink	Conduction
Relative Humidity	0 to 95%	Non-condensing

Miscellaneous

Control / Interface Signals	Standby/Operate, Pre-trigger, Remote On/Off, Synchronization	TTL Logic
MTBF	21,500 hrs. @ +50°C Baseplate Temperature	MIL-HDBK-217

Notes