

Specifications (measured @ Ta= 25°C, 1.5Vin, full load and after warm-up unless otherwise stated)

REGULATIONS

Parameter	Condition	Value
Output Accuracy		±3.0% typ.
Line Regulation	low line to high line, full load	±0.3% typ.
Load Regulation	10% to 100% load	±1.0% typ.

PROTECTIONS

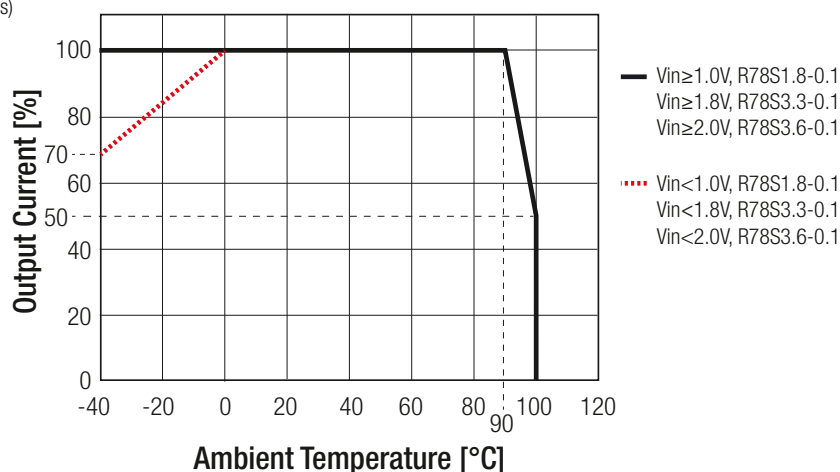
Parameter	Condition	Value
Short Circuit Protection (SCP)	below 100mΩ	continuous, auto recovery
Over Temperature Protection (OTP)	internal IC	≥ 150°C ≤ 130°C shutdown restart after cooling down

ENVIRONMENTAL

Parameter	Condition	Value
Operating Temperature Range	with derating (see graph)	-40°C to +100°C
Maximum Case Temperature		+105°C
Temperature Coefficient		0.015%/°C
Operating Altitude		5000m
Operating Humidity	non-condensing	5% to 95% RH
Pollution Degree		PD2
MTBF	according to MIL-HDBK-217F, G.B.	+25°C +90°C 89365 x 10 ³ hours 6963 x 10 ³ hours
Vibration		10-55Hz, 2G, 30min along X, Y and Z axis

Derating Graph

(@ Chamber and natural convection 0.1m/s)



SAFETY AND CERTIFICATIONS

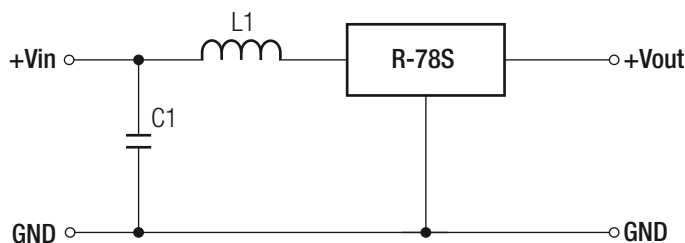
Certificate Type (Safety)	Report / File Number	Standard
Audio/video, information and communication technology equipment Safety requirements (CB Scheme)	WD-SE-R-170351-00	IEC62368-1, 2nd Edition, 2014 EN62368-1, 2014
EAC	RU-AT.49.09571	TP TC 004/2011
RoHs2+		RoHS 2011/65/EU + AM2015/863

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EMC Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment - Emission requirements	without external components with external components	EN55032:2010, Class A EN55032:2010, Class B
Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement		EN55024, 2010
ESD Electrostatic Discharge Immunity Test	Air ±8kV and Contact ±4kV	IEC61000-4-2:2008, Criteria A
Radiated, Radio-Frequency, Electromagnetic Field Immunity Test	3V/m	IEC61000-4-3:2006, Criteria A
Fast Transient and Burst Immunity	±0.5kV	IEC61000-4-4:2012, Criteria A
Surge Immunity	±0.5kV	IEC61000-4-5:2005, Criteria A
Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields	3V r.m.s.	IEC61000-4-6:2013, Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	IEC61000-4-8:2009, Criteria A

EMC Filtering Suggestions according to EN55022 Class B

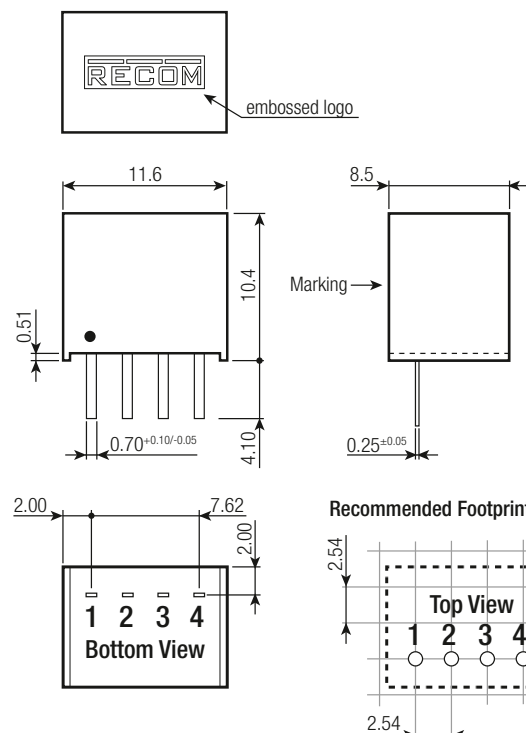


C1	L1
2.2μF 16V MLCC	1μH Choke

DIMENSION AND PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	case potting PCB	non-conductive black plastic, (UL94 V-0) epoxy, (UL94 V-0) FR4, (UL94 V-0)
Package Dimension (LxWxH)		11.6 x 8.5 x 10.4mm
Package Weight		2g typ.

Dimension Drawing (mm)



Pin Connections

Pin #	Function
1	+Vin
2	GND
3	+Vout
4	CTRL

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm