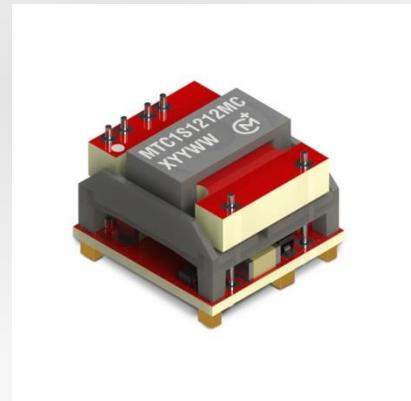


MTC1 Series

3kVAC Isolated, 1W, Fully Regulated Single Output DC-DC Converters

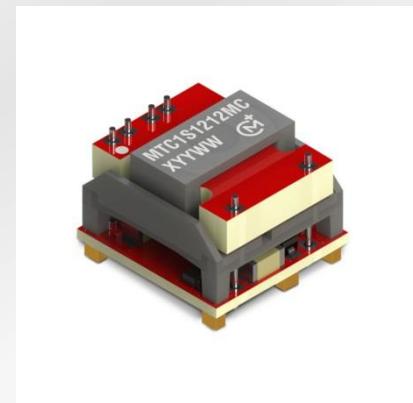
MTC1 Features & Benefits.....

- Fully Regulated Design
 - 2:1 input ranges of 9-18V and 18-36V
 - Outputs of 3.3V, 5V, and 12V at 1W
- UL60950 Certification (pending)
 - Broadly accepted safety standard to simplify customer certification
 - Reinforced insulation to a working voltage of 250Vrms
- ANSI/AAMI ES60601-1, 2 MOOPs recognition pending
- -40°C to +100°C operating temperature range
 - Wide industrial temperature range
 - Full power to 85°C (model-dependent), convection cooled



MTC1 Features & Benefits (cont.)

- **SMD Package**
 - 34% smaller footprint than currently available solutions
- **Output on/off control pin**
- **Output Voltage Adjustment**
- **Continuous Short Circuit Protection**

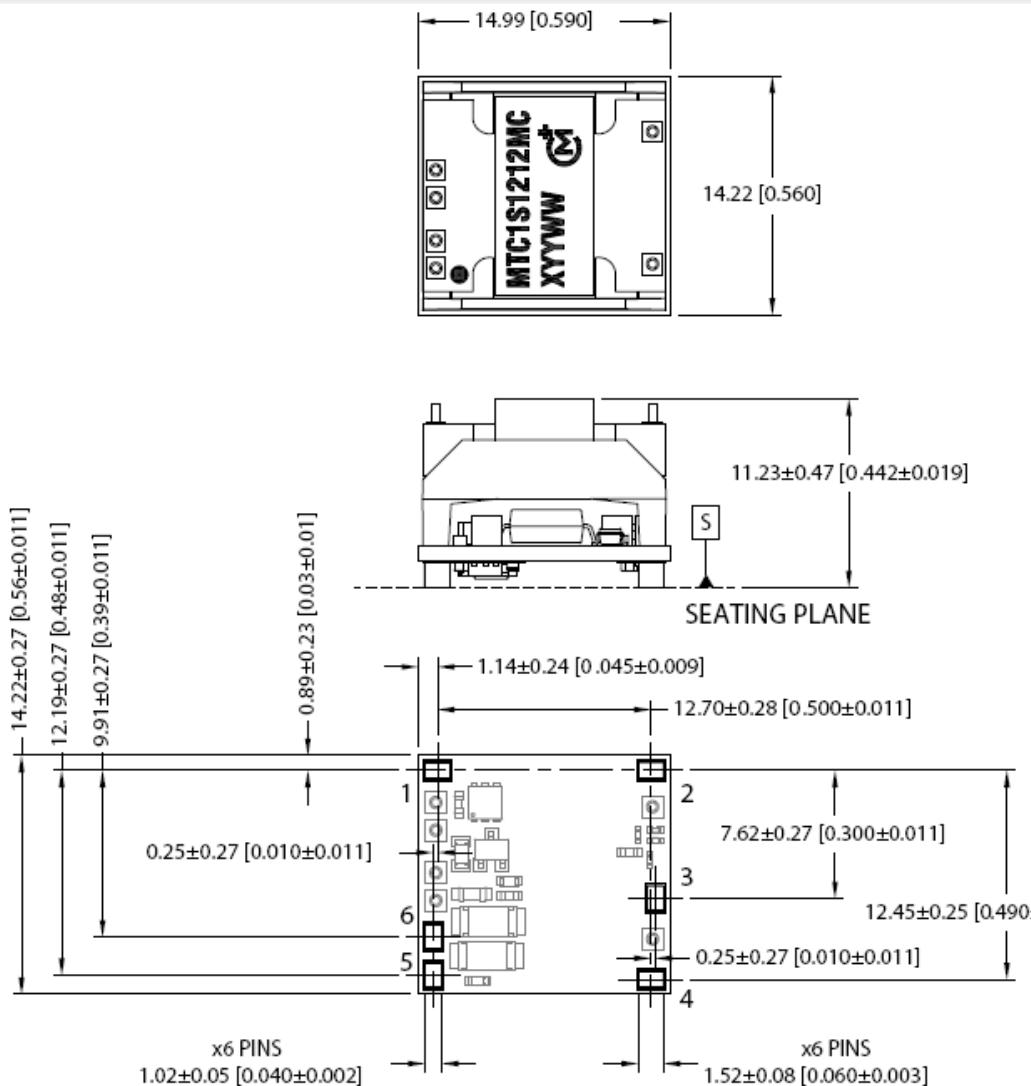


MTC1 Models & Specifications

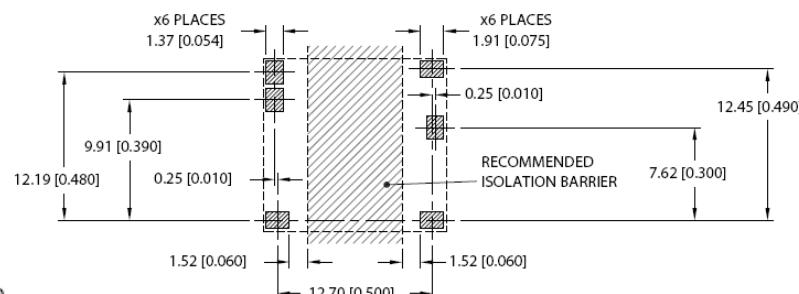
SELECTION GUIDE

Order Code ¹	Input Voltage	Output Voltage	Output Current	Rated Input Current	Efficiency		Ripple and Noise		MTTF ²	
					Min.	Typ.	Typ.	Max.	MIL	Telecordia
	Nom.	V	V	mA	mA	%	%	mVp/p	mVp/p	kHrs
MTC1S1203MC	12	3.3	303	110	72	75	25	50	1143	17407
MTC1S1205MC	12	5	200	110	77	78.5	25	50	1129	17407
MTC1S1212MC	12	12	83	100	77	79	20	40	977	17407
MTC1S2403MC	24	3.3	303	55	73	75.5	30	55	1042	17109
MTC1S2405MC	24	5	200	55	74	76.5	25	50	990	17109
MTC1S2412MC	24	12	83	55	75	77	25	50	833	17109

MTC1 Mechanical Detail



Pin	Function
1	+Vin
2	-Vout
3	Trim
4	+Vout
5	Ctrl
6	-Vin



Markets and Applications

Markets:

- Industrial Automation
- Instrumentation and Control
- Telecommunications

Applications:

- Battery powered systems
- Process control systems
- Distributed power systems

