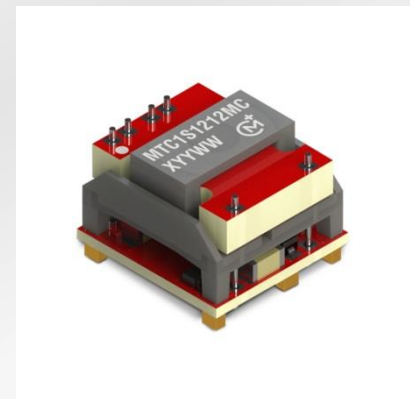


# MTC1 Series

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

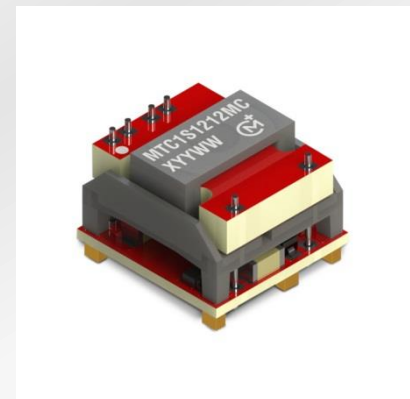
# MTC1 Features & Benefits.....

- **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**

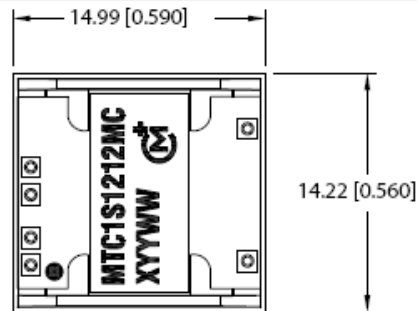


# MTC1 Models & Specifications

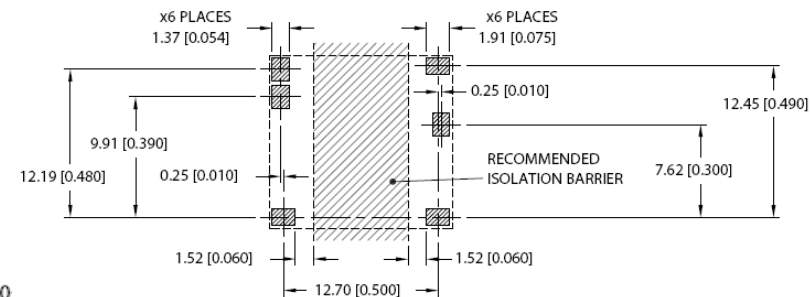
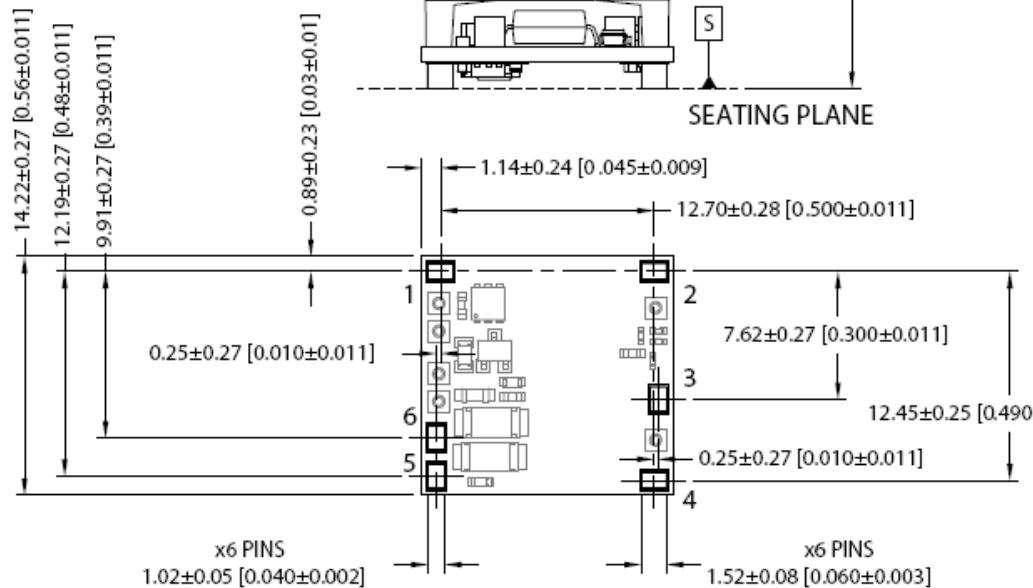
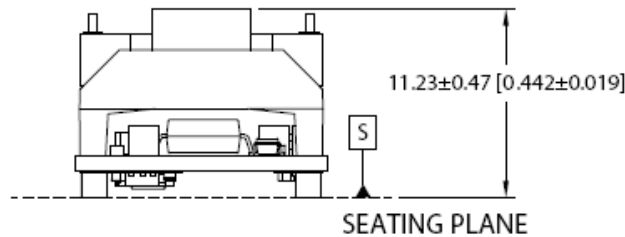
## SELECTION GUIDE

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

