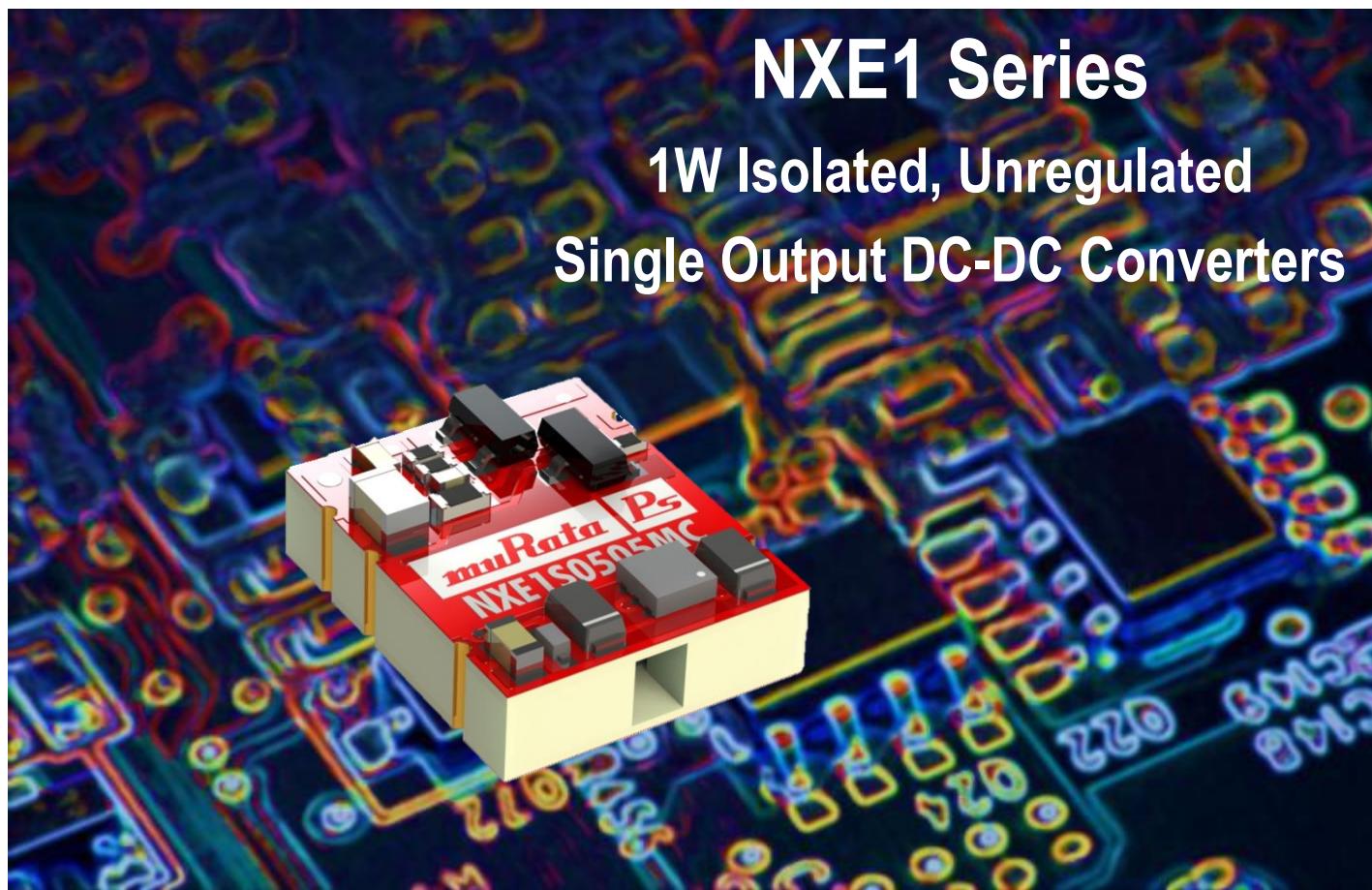


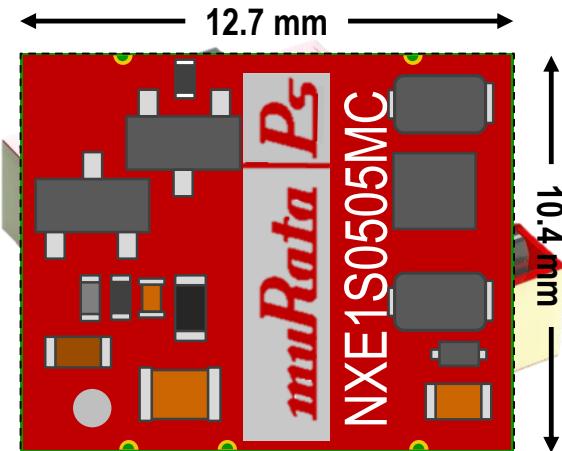
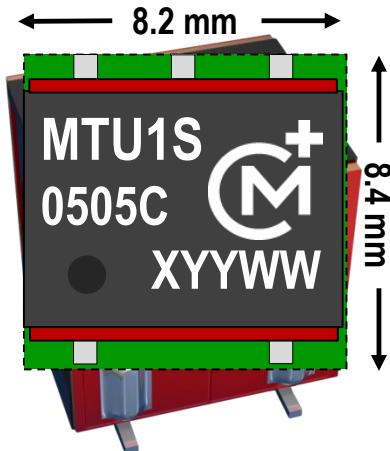
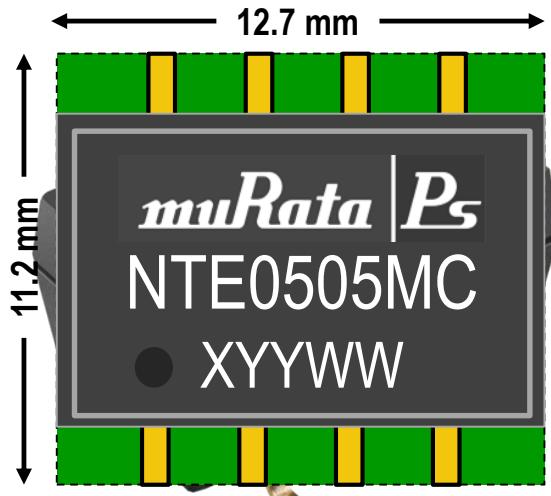
# NXE1 Series

**NXE1 Series**  
1W Isolated, Unregulated  
Single Output DC-DC Converters

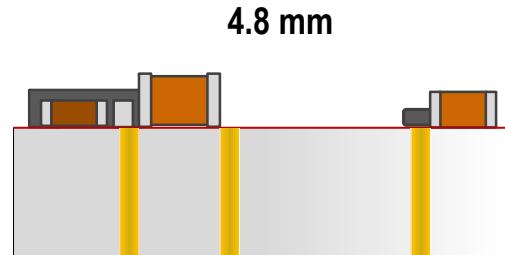
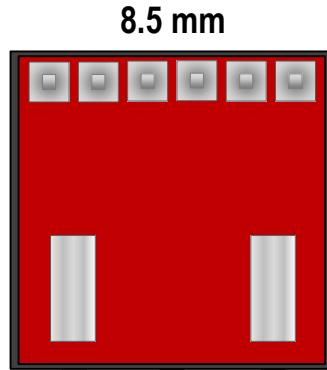


# NXE1 Series Background

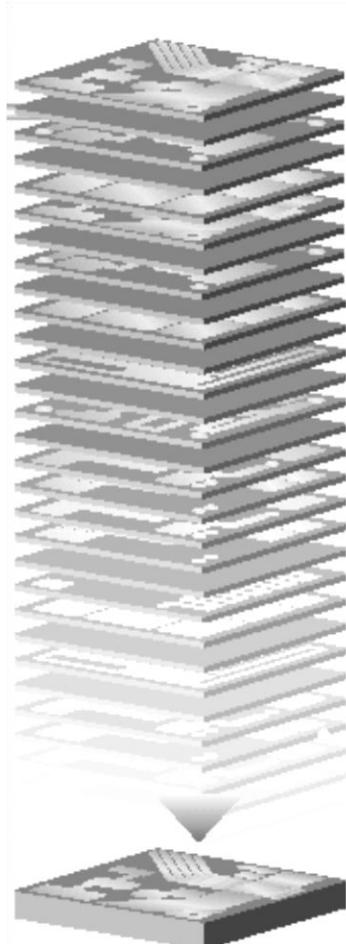
## ■ Footprint



## ■ Height

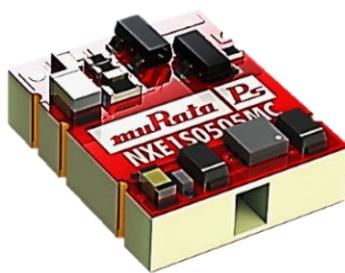


# NXE1 Series Technology



## Multilayer construction...

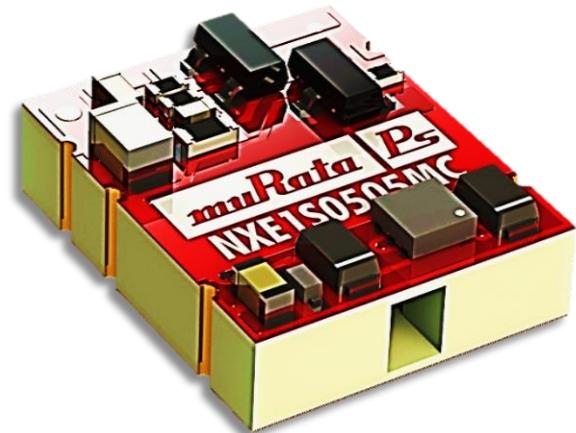
- Patents-pending
- Layered substrate construction
- Lower product cost
- Consistent performance
- Fully automated manufacture
- Improved reliability
- Reduced height profile
- 3kV isolation test



# NXE1 Series Features

## ■ NXE1S0505MC

- 4.5-5.5V input
- 5V output
- 50mVpp max output ripple and noise
- 3kV isolation test voltage
- iLGA surface mount package
- Pin compatible replacement for NTE & MTE1
- -40°C to +85°C ambient operation
- MTTF >5.0 Mhrs
- UL60950 & UL60601 certifications pending



## ■ NXE1S0305MC & NXE1S0303MC

- Coming soon
- 3.3V input, 5V or 3.3V output

# Product Status and Support

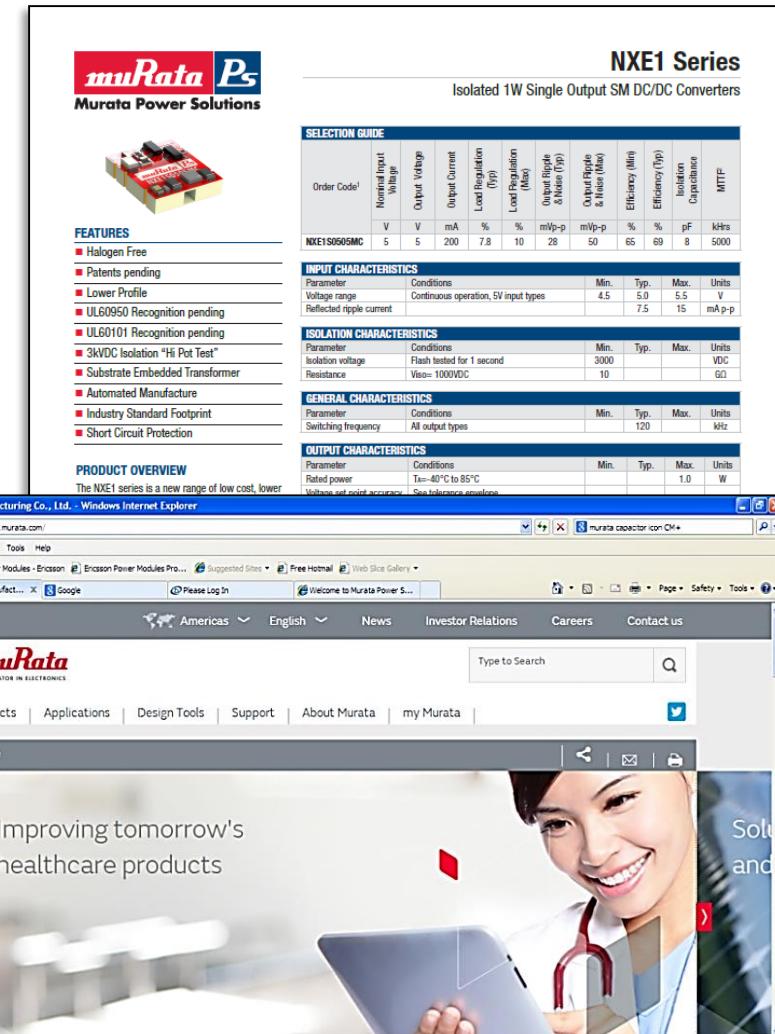
## ■ NXE1 Product Status

- Samples available from stock
- Production quantities:  
From stock to 12 weeks lead time

## ■ [www.murata.com](http://www.murata.com)

- Datasheets
- Application notes
- Video tutorials
- ...and more

# Thank you!



The image shows two screenshots of the Murata website. The top screenshot is a data sheet for the NXE1 Series, specifically the NXE1S0505MC model. It includes a selection guide table, input characteristics table, isolation characteristics table, general characteristics table, and output characteristics table. The bottom screenshot is the Murata homepage, featuring a banner with a doctor holding a tablet and the text 'Improving tomorrow's healthcare products'.

Isolated 1W Single Output SM DC/DC Converters									
SELECTION GUIDE									
Order Code <sup>1</sup>	Nominal Input Voltage	Output Voltage	Output Current	Load Regulation (Typ)	Load Regulation (Max)	Output Ripple & Noise (Typ)	Output Ripple & Noise (Max)	Efficiency (Typ)	Efficiency (Min)
NXE1S0505MC	5	5	200	7.8	10	28	50	65	69
	mVp-p	mVp-p	%	%	%	pF	pF	khrs	kHz
FEATURES									
■ Halogen Free									
■ Patents pending									
■ Lower Profile									
■ UL60950 Recognition pending									
■ UL60101 Recognition pending									
■ 3kVDC Isolation "Hi Pot Test"									
■ Substrate Embedded Transformer									
■ Automated Manufacture									
■ Industry Standard Footprint									
■ Short Circuit Protection									
PRODUCT OVERVIEW									
The NXE1 series is a new range of low cost, lower									