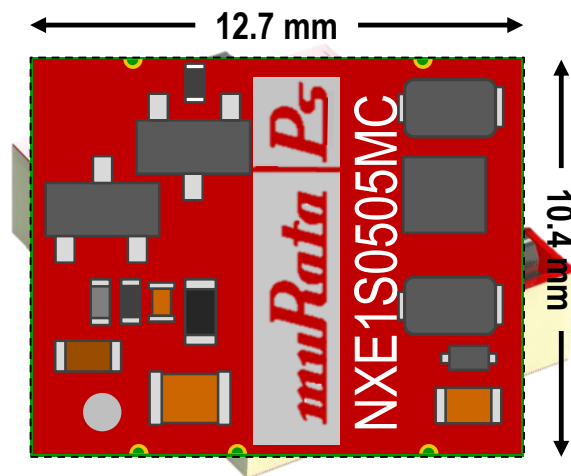
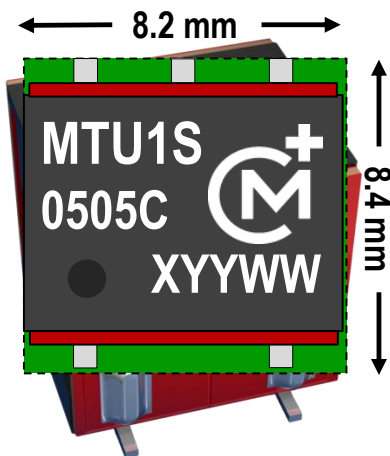
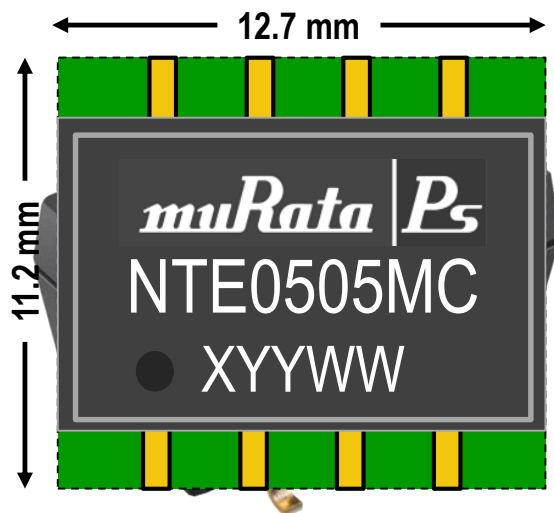
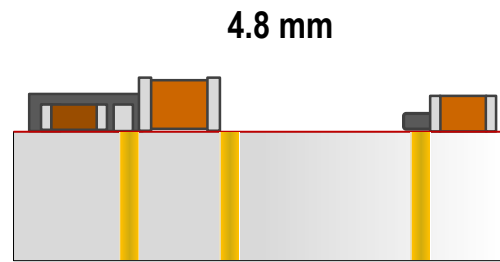
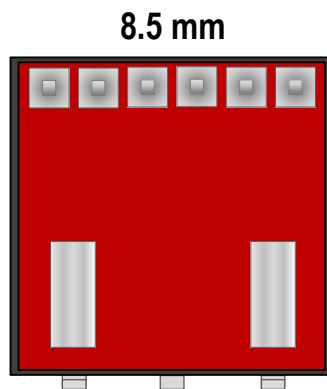
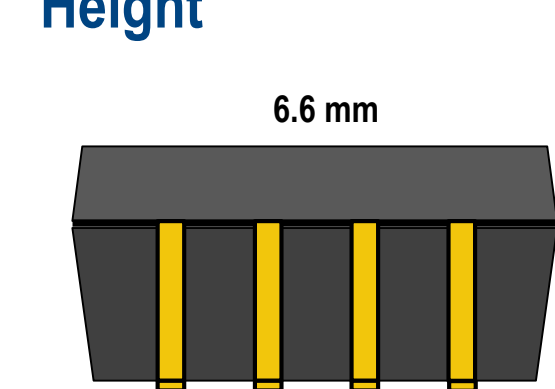


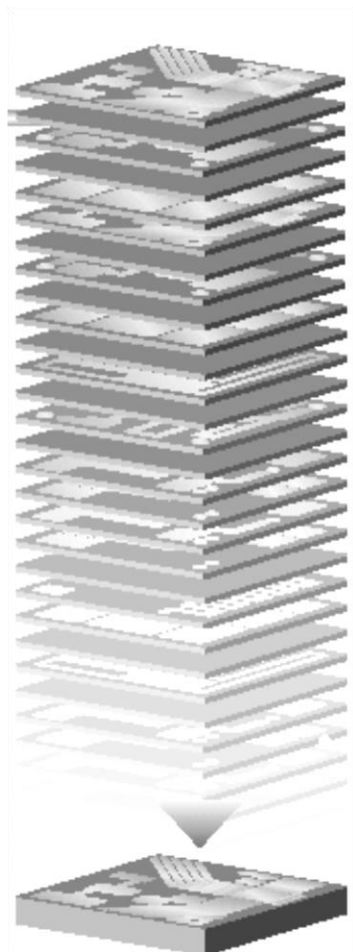
# NXE1 Series Background

## ■ Footprint



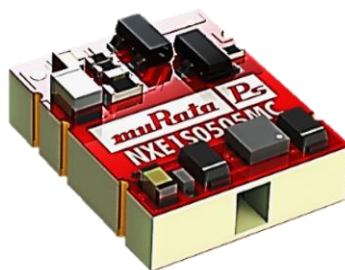
## ■ Height





## Multilayer construction...

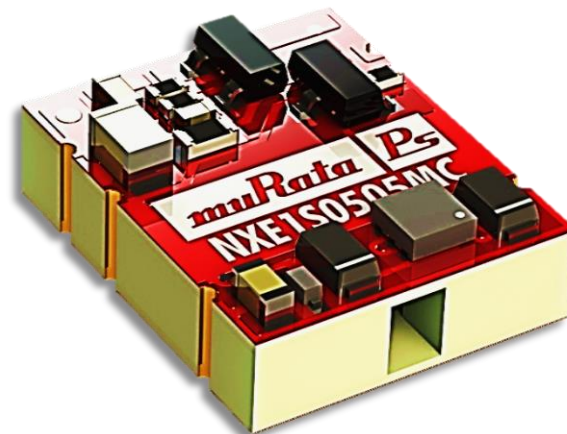
- Patents-pending
- Layered substrate construction
- Lower product cost
- Consistent performance
- Fully automated manufacture
- Improved reliability
- Reduced height profile
- 3kV isolation test



# 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 a screenshot of the Murata NXE1 Series product page. The page is titled "NXE1 Series" and "Isolated 1W Single Output SM DC/DC Converters". It features a "SELECTION GUIDE" table, "INPUT CHARACTERISTICS", "ISOLATION CHARACTERISTICS", "GENERAL CHARACTERISTICS", and "OUTPUT CHARACTERISTICS" sections. A "PRODUCT OVERVIEW" section states: "The NXE1 series is a new range of low cost, lower". Below the product page, there is a screenshot of the Murata website interface, showing the "muRata" logo, navigation links (Products, Applications, Design Tools, Support, About Murata, my Murata), and a banner image of a smiling woman holding a tablet, with the text "Improving tomorrow's healthcare products".

**muRata PS**  
Murata Power Solutions

**NXE1 Series**  
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 (Min)	Efficiency (Typ)	Isolation Capacitance	MTTF
NXE1S0605MC	5	5	200	7.8	10	28	50	65	69	8	5000

**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

**INPUT CHARACTERISTICS**

Parameter	Conditions	Min.	Typ.	Max.	Units
Voltage range	Continuous operation, 5V input types	4.5	5.0	5.5	V
Reflected ripple current			7.5	15	mA p-p

**ISOLATION CHARACTERISTICS**

Parameter	Conditions	Min.	Typ.	Max.	Units
Isolation voltage	Flash tested for 1 second		3000		VDC
Resistance	VDC=1000VDC		10		GΩ

**GENERAL CHARACTERISTICS**

Parameter	Conditions	Min.	Typ.	Max.	Units
Switching frequency	All output types		120		kHz

**OUTPUT CHARACTERISTICS**

Parameter	Conditions	Min.	Typ.	Max.	Units
Rated power	Ta=-40°C to 85°C			1.0	W

Without self-cooling. See tolerance conditions.

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