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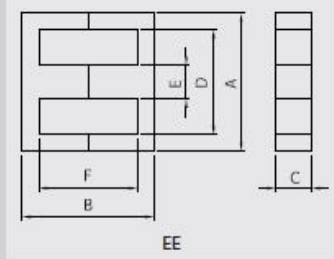
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10.- Anexos.

Núcleo de Ferrita EE4242S

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EE CORES



Part No.		EE4133S	EE4242B	EE4242S	EE5040S
Type		EE	EE	EE	EE
Dimensions in mm	A	41.28 ±0.80	42.00 ^{+1.00} / _{-0.70}	42.00 ^{+1.00} / _{-0.70}	50.15 ^{+0.70} / _{-0.50}
	B	33.52 ±0.40	42.40 ±0.40	42.40 ±0.40	41.90 ±0.50
	C	12.70 ±0.25	15.00 ±0.50	20.00 ^{+0.00} / _{-0.80}	15.70 ^{+0.00} / _{-0.50}
	D	28.01 min.	29.50 ^{+1.20} / _{-0.00}	29.50 ^{+1.20} / _{-0.00}	33.00 ±0.50
	E	12.70 ±0.25	12.20 ^{+0.00} / _{-0.50}	12.20 ^{+0.00} / _{-0.50}	15.70 ^{+0.00} / _{-0.50}
	F	20.82 ±0.40	30.00 ^{+0.80} / _{-0.00}	30.00 ^{+0.80} / _{-0.00}	24.90 ±0.50

Core Set Parameters		EE4133S	EE4242B	EE4242S	EE5040S
CI (mm ³)		0.480	0.550	0.416	0.367
Le (mm)		77.5	97.9	97.8	93.3
Ae (mm ²)		161.3	178.0	235.0	254.0
Ve (mm ³)		12501	17510	23000	23790
Ac (mm ²)		151.8	176.0	234.0	238.0
Aw (mm ²)		164.6	278.0	275.0	218.0
W (g/set)		64	88	116	121

Electrical Characteristics ⁽¹⁾⁽²⁾		EE4133S	EE4242B	EE4242S	EE5040S	
Core Loss	Al value	PL-7	4400	3800	5000	5800
		PL-9	5100	4500	6000	6800
		PL-11	4600	4000	5200	6000
		PL-13	5440	4800	6400	7250
		PL-15	4600	4000	5200	6000
	Core loss	PL-7	6.88	9.63	12.65	1.89 ⁽²⁾
		PL-9	6.25	8.76	11.50	1.70 ⁽²⁾
		PL-11	6.25	8.76	11.50	1.70 ⁽²⁾
		PL-13	6.00	8.40	11.04	1.70 ⁽²⁾
		PL-15	5.63	7.88	10.35	1.53 ⁽²⁾

Note : 1) Core Loss

- Unit : Watt max.
- Measuring conditions
- PL-7, PL-11, PL-15 : 100kHz, 200mT, at 100°C
- PL-9, PL-13 : 100kHz, 200mT, at 80°C
- ¹⁾ 100kHz, 100mT, at 100°C
- ²⁾ 25kHz, 200mT, at 100°C

2) Al value

- Unit : nH/N²
- Measuring conditions : 1kHz, 0.1V, 23°C
- Tolerance : ±25%
- SM-100 : Non minor grinding

Convertidor DC-DC VI-LJTP-EW



Features

- RoHS compliant (VE versions)
- Up to 50 Watts per cubic inch
- eULus, eTUVus
- CE Marked
- Up to 90% efficiency
- Size: 2.28" x 2.4" x 0.5" (57.9 x 61.0 x 12.7)
- Remote sense and current limit
- Logic disable
- Wide range output adjust
- ZCS power architecture
- Low noise FM control
- Isolated output

Data Sheet

VI-J00, VE-J00

Half Brick DC-DC Converters 25 to 100 Watts

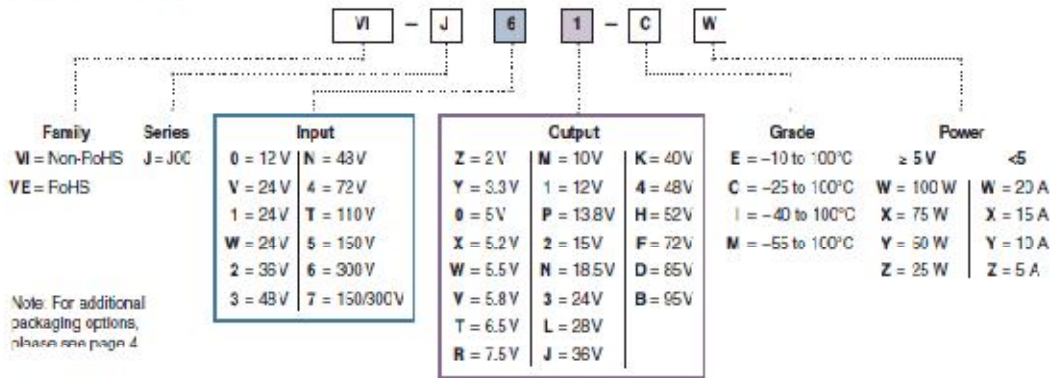
Product Highlights

The VI-J00 MiniMod family established a new standard in component-level DC-DC converters. This "junior" size complement to the higher power VI-200 family offers up to 100 W of isolated and regulated power in a board mounted package. With thousands of input/output/power combinations, and with a maximum operating temperature rating of 100°C, the MiniMod provides nearly unlimited flexibility for power system designers to meet demanding time to market requirements.

Utilizing Vicor's "zero-current-switching" forward converter technology, proven by an installed base of over 8 million units, the MiniMod family combines state of the art power density with the efficiency, low noise and reliability required by next generation power systems.



Part Numbering



Maximum Power Available for VI-Jxx-xx

Voltage Nom. (Range)	Input		Vin Designators	Output																					
	Low Line 75% Max Power	Transient ⁽¹⁾		Vout Designators																					
12 (10-20)	n/a	22	0	Z	Y	0	X	W	V	T	R	M	1	P	2	N	3	L	J	K	4	H	F	D	B
24 (10-36)	n/a	n/a	Y	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24 (21-32)	18	36	1	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
24 (18-36)	n/a	n/a	W	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
36 (21-56)	18	60	2	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40 (42-60)	36	72	3	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
40 (36-70)	n/a	n/a	N	W	W	X	X	X	X	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
72 (56-100)	45	110	4	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
110 (56-160)	n/a	n/a	T	W	W	X	X	X	X	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
160 (100-200)	85	216	5	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W
160 (100-375)	n/a	n/a	7	Y	Y	Y	Y	Y	Y	Y	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	X
300 (200-400)	170	425	6	W	W	W	W	W	W	X	X	W	W	W	W	W	W	W	W	W	W	W	W	W	W

⁽¹⁾ Transient voltage for 1 second.

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Thermochron *i*Button

DS1921G

General Description

The DS1921G Thermochron[®] *i*Button[®] is a rugged, self-sufficient system that measures temperature and records the result in a protected memory section. The recording is done at a user-defined rate, both as a direct storage of temperature values as well as in the form of a histogram. Up to 2040 temperature values taken at equidistant intervals ranging from 1 to 255 min can be stored. The histogram provides 63 data bins with a resolution of 2.0°C. If the temperature leaves a user-programmable range, the DS1921G also records when this happened, for how long the temperature stayed outside the permitted range, and if the temperature was too high or too low. An additional 512 bytes of read/write nonvolatile (NV) memory allows storing information pertaining to the object to which the DS1921G is associated. Data is transferred serially through the 1-Wire[®] protocol, which requires only a single data lead and a ground return. Every DS1921G is factory lasered with a guaranteed unique, electrically readable, 64-bit registration number that allows for absolute traceability. The durable stainless steel package is highly resistant to environmental hazards such as dirt, moisture, and shock. Accessories permit the DS1921G to be mounted on almost any object including containers, pallets, and bags.

Applications

Temperature Logging in Cold Chain, Food Safety, Pharmaceutical, and Medical Products

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
DS1921G-T5#	-40°C to +85°C	TS <i>i</i> Button

#Denotes a RoHS compliant device that may include lead (Pb) that is exempt under the RoHS requirements.

Examples of Accessories

PART	ACCESSORY
US9036P	Self-Stick Adhesive Pad
DS9101	Multipurpose Clip
DS9033RA	Mounting Lock Ring
DS9033A	Snap-In Foot
DS9032	<i>i</i> Button Probe

Pin Configuration appears at end of data sheet.

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Maxim Integrated Products 1

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.

Features

- ♦ Digital Thermometer Measures Temperature in 0.5°C Increments
- ♦ Accuracy ±1°C from -30°C to +70°C (See the *Electrical Characteristics for Accuracy Specification*)
- ♦ Built-In Real-Time Clock (RTC) and Timer Has Accuracy of ±2 Minutes per Month from 0°C to +45°C
- ♦ Water Resistant or Waterproof if Placed Inside DS9107 *i*Button Capsule (Exceeds Water Resistant 3 ATM Requirements)
- ♦ Automatically Wakes Up and Measures Temperature at User-Programmable Intervals from 1 Minute to 255 Minutes
- ♦ Logs Up to 2040 Consecutive Temperature Measurements in Protected NV RAM
- ♦ Records a Long-Term Temperature Histogram with 2.0°C Resolution
- ♦ Programmable Temperature High and Temperature Low Alarm Trip Points
- ♦ Records Up to 24 Timestamps and Durations When Temperature Leaves the Range Specified by the Trip Points
- ♦ 512 Bytes of General-Purpose Read/Write NV RAM
- ♦ Communicates to Host with a Single Digital Signal at 15.4kbps or 125kbps Using 1-Wire Protocol

Common *i*Button Features

- ♦ Digital Identification and Information by Momentary Contact
- ♦ Unique, Factory-Lasered, and Tested 64-Bit Registration Number (8-Bit Family Code + 48-Bit Serial Number + 8-Bit CRC Tester) Assures Absolute Traceability Because No Two Parts are Alike
- ♦ Multidrop Controller for 1-Wire Net
- ♦ Chip-Based Data Carrier Compactly Stores Information
- ♦ Data Can Be Accessed While Affixed to Object
- ♦ Button Shape is Self-Aligning with Cup-Shaped Probes
- ♦ Durable Stainless-Steel Case Engraved with Registration Number Withstands Harsh Environments
- ♦ Easily Affixed with Self-Stick Adhesive Backing, Latched by Its Flange, or Locked with a Ring Pressed Onto Its Rim
- ♦ Presence Detector Acknowledges When Reader First Applies Voltage
- ♦ Meets UL 913, 5th Ed., Rev. 1997-02-24; Intrinsically Safe Apparatus: Approved Under Entity Concept for Use in Class I, Division 1, Group A, B, C, and D Locations