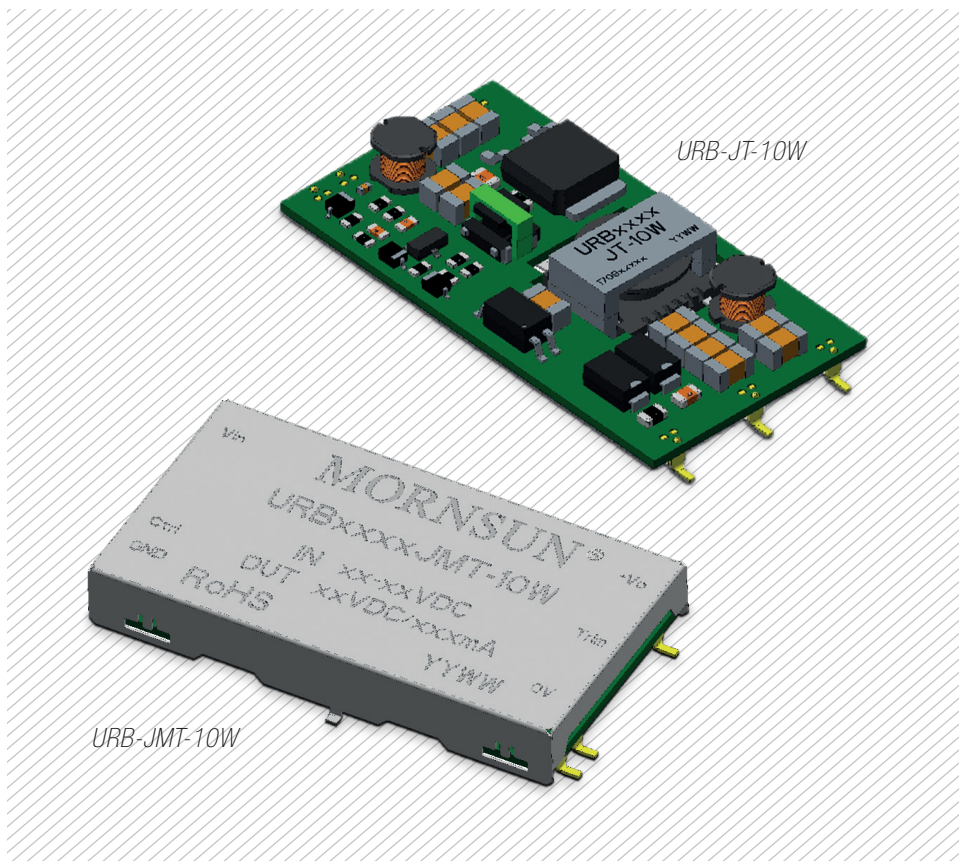


endrich news

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OUR PRODUCT OF THE MONTH:

ULTRA-THIN 6 W AND 10 W SMD/DIP DC/DC CONVERTERS

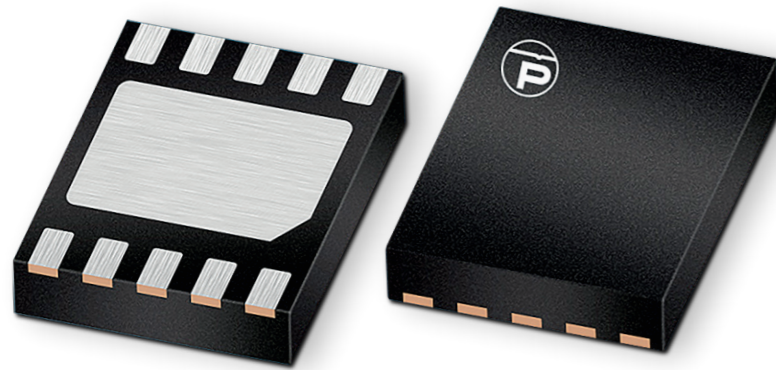


FEATURES

- Ultra-thin DC/DC converters in DIP/SMD package
- Ultra-wide input voltage range: 4:1, 2:1
- Efficiency high up to 88 %
- No-load power consumption as low as 0.096 W
- Isolation voltage: 500 VAC
- Operating temperature range: -40 °C to +85 °C
- Protections: SCP, OCP, OVP and input UVP



PLR2504 – TVS PROTECTION FOR NETWORKING APPLICATIONS



ProTek Devices has introduced a new ultra-low capacitance (4 pF) steering diode/transient voltage suppressor array for circuit protection in various networking applications. Networking application coverage includes Gigabit Ethernet, T1/E1 and T3/E3 (chip-side), and wireless communications. The new device is also suited for USB and DVI interfaces.

FEATURES

- 300 Watts Peak Pulse Power per Line ($t_p = 8/20 \mu s$)
- ESD Protection > 25 kilovolts
- Very Low Clamping Voltage: VC Max 12V at 25 A, 8/20 μs
- Unidirectional Configuration
- Protects 4 I/O Ports & Power Supply
- Ultra Low Capacitance: 4 pF
- REACH & RoHS Compliant

APPLICATIONS

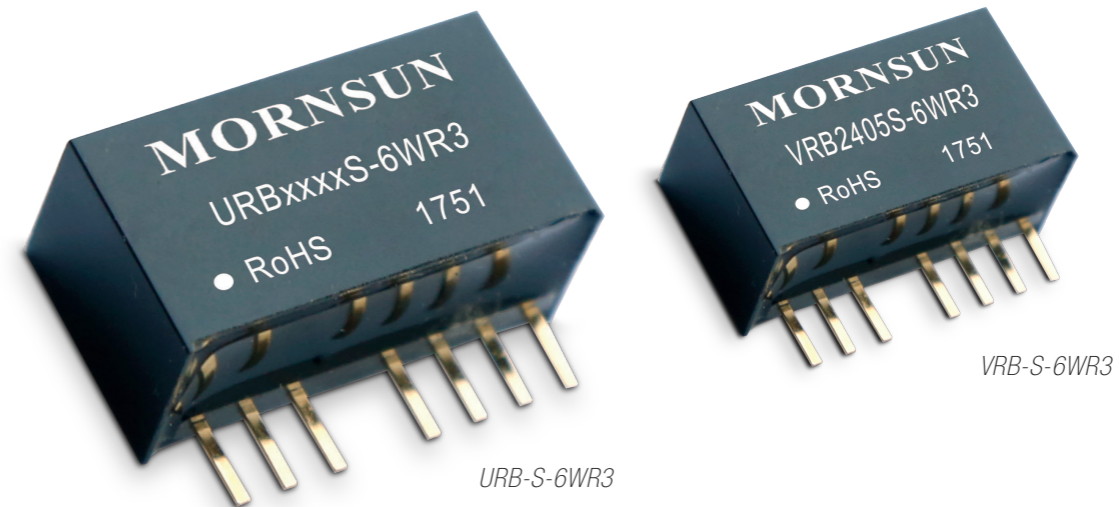
- Gigabit Ethernet
- T1/E1, T3/E3 Chip Side Protection
- Wireless Communications
- USB & DVI Interfaces

This steering diode/TVS array, the PLR2504, provides unidirectional configuration and is rated at 300 watts peak pulse current (8/20 micro seconds wave shape). ESD protection is greater than 25 kilovolts and the component also provides a very low clamping voltage (VC max 12V at 25 A, 8/20 micro seconds). It protects four I/O ports and a power supply. The PLR2504 is compatible with IEC standards 61000-4-2 (ESD): air 15 kV, contact 8 kV; with 61000-4-4 (EFT): 40A - 5/50 ns; and with 61000-4-5 (surge). And, it is RoHS and REACH compliant. Also, at higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This device, in conjunction with passive components integrated into a TVS/filter network, can be used for EMI/RFI protection in this scenario.

ELECTRICAL CHARACTERISTICS PER LINE

Part Number	PLR2504
Rated stand-off voltage	2.5V
Minimum snap-back Voltage at 50 mA	2.0V
Minimum punch through Voltage at 5 μA	2.7V
Maximum clamping Voltage at $I_p = 1 A$	4.5V
Maximum clamping Voltage at $I_p = 10 A$	7.5V
Maximum leakage current at V_{WM}	0.5 μA
Typical capacitance I/O to GND at 0V, 1 MHz	4.0 pF

6 W SIP8 SPACE-SAVING WIDE INPUT VOLTAGE R3 DC/DC CONVERTERS



MORNSUN newly launched SIP8 6W wide input voltage isolated regulated R3 DC/DC converters, URB-S-6WR3 and VRB-S-6WR3 series. By increasing the power density of converters in international SIP8 package, the power is increased from 1 W and 3 W to 6 W.

The new 6 W R3 DC/DC converters provide 4:1 and 2:1 wide input voltage range, single output of 3.3, 5, 9, 12, 15, 24 V and multiple protections, meeting EN62368 certification. Applications include industrial control, grid power, instrumentation, communication, etc.

Subsequent DC/DC converters in DIP packages (DIP24, 1 x 1, 2 x 1) will be coming soon, providing higher power density on the basis of upgrading the product performance, to meet the demands for space and high power density in different applications.

FEATURES

- Ultra wide input voltage range: 9-36V
- No-load power consumption as low as 0.12 W
- Operating temperature range: -40 °C to +105 °C
- Input under-voltage protection, output short circuit, over-current protection
- High power density, SIP package
- International standard pin-out

URB-S-6WR3

Power	6W
Input Voltage	24 (9-36)VDC
Output Voltage	3.3, 5, 9, 12, 15, 24VDC
No of Output	1
Isolation	1600VDC
Package	SIP
Dimension	22 x 9.5 x 12 mm
Certification	EN62368 (pending)

VRB-S-6WR3

Power	6W
Input Voltage	12 (9-18), 24 (18-36)VDC
Output Voltage	3.3, 5, 9, 12, 15, 24VDC
No of Output	1
Isolation	1600VDC
Package	SIP
Dimension	22 x 9.5 x 12 mm
Certification	EN62368 (pending)

ULTRA-THIN 6 W AND 10 W SMD/DIP DC/DC CONVERTERS

NEW!



URB-JMT-10W

URB-JT-10W

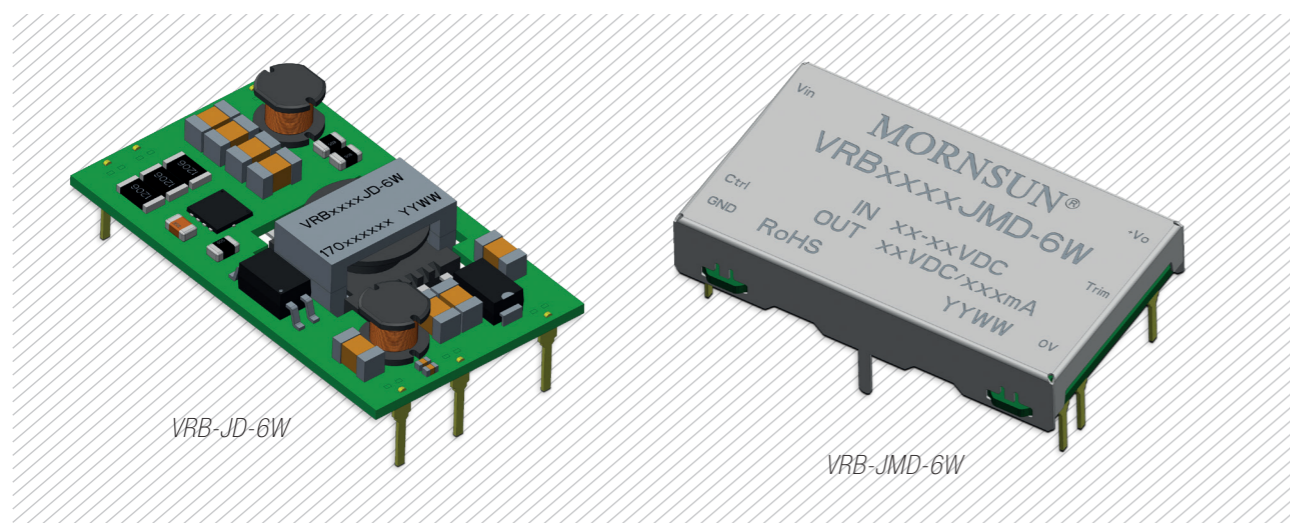
When it comes to performance, the new SMD 6 W and 10 W DC/DC converters feature R3 DC/DC Converters' advantages, providing isolation of 500 VAC, efficiency up to 88 %, no-load power consumption as low as 0.096 W, multiple protections including SCP, OCP, OVP and input UVP.

MORNSUN continued to enrich and expand existing packages (DIP24, 1x1 and 2x1) of DC/DC converters and developed new ultra-thin 6 W and 10 W DC/DC converters, to meet customers' differential needs for packages in practical applications.

The dimension of 6 W converter is 31.6 x 18.1 x 6.1 mm (about 1.24 x 0.71 x 0.24 inch) and 10 W is 39.2 x 20.8 x 6.1 mm (about 1.54 x 0.82 x 0.24 inch). Packages are available in SMD, DIP, open frame and metal case.

FEATURES

- Ultra-thin DC/DC converters in DIP/SMD package
- Ultra-wide input voltage range: 4:1, 2:1
- Efficiency high up to 88 %
- No-load power consumption as low as 0.096 W
- Isolation voltage: 500 VAC
- Operating temperature range: -40 °C to +85 °C
- Protections: SCP, OCP, OVP and input UVP

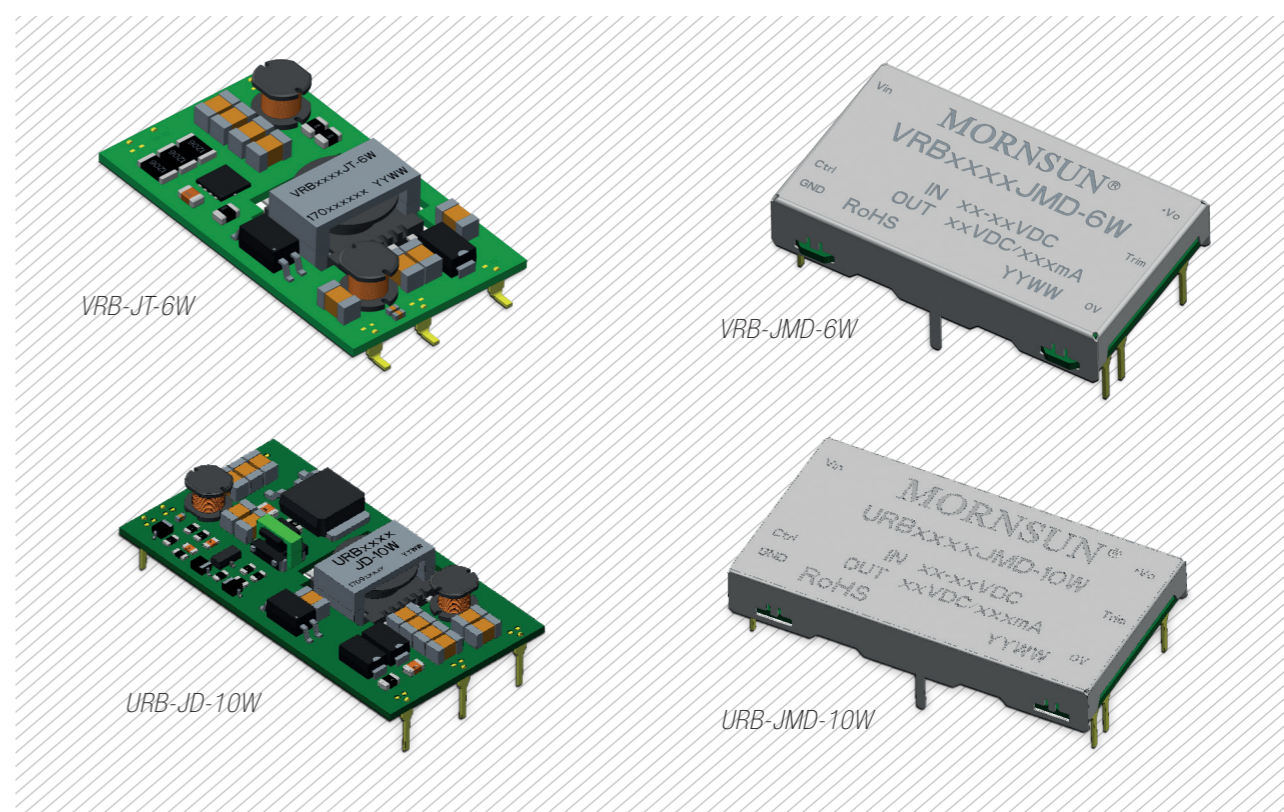


VRB-JD-6W

VRB-JMD-6W

ULTRA-THIN 6 W AND 10 W SMD/DIP DC/DC CONVERTERS

MODEL NUMBER	POWER	INPUT VOLTAGE	OUTPUT VOLTAGE	NO. OF OUTPUTS	ISOLATION	PACKAGE	DIMENSION	CERTIFICATION
ELECTRICAL SPECIFICATION								
VRB-JD-6W	6 W	12 (9-18) VDC 24 (18-36) VDC	3.3, 5, 12, 15 VDC	1	500 VAC	DIP	31.6 x 18.1 x 6.1 mm	ROHS
VRB-JT-6W	6 W	12 (9-18) VDC 24 (18-36) VDC	3.3, 5, 12, 15 VDC	1	500 VAC	SMD	33.78 x 18.1 x 6.3 mm	ROHS
VRB-JMD-6W	6 W	12 (9-18) VDC 24 (18-36) VDC	3.3, 5, 12, 15 VDC	1	500 VAC	DIP	32.6 x 18.6 x 6.8 mm	ROHS
VRB-JMT-6W	6 W	12 (9-18) VDC 24 (18-36) VDC	3.3, 5, 12, 15 VDC	1	500 VAC	SMD	33.78 x 18.6 x 7.0 mm	ROHS
URB-JD-10W	10 W	24 (9-36) VDC	5, 12, 15 VDC	1	500 VAC	DIP	39.2 x 20.8 x 6.1 mm	ROHS
URB-JT-10W	10 W	24 (9-36) VDC	5, 12, 15 VDC	1	500 VAC	SMD	41.4 x 20.8 x 6.3 mm	ROHS
URB-JMD-10W	10 W	24 (9-36) VDC	5, 12, 15 VDC	1	500 VAC	DIP	40.2 x 22.0 x 6.8 mm	ROHS
URB-JMT-10W	10 W	24 (9-36) VDC	5, 12, 15 VDC	1	500 VAC	SMD	41.4 x 22.0 x 7.0 mm	ROHS



VRB-JT-6W

VRB-JMD-6W

URB-JD-10W

URB-JMD-10W

THE MOST COMPREHENSIVE ALL-IN-ONE TOUCH DISPLAY COMPUTER SOLUTION ON THE MARKET



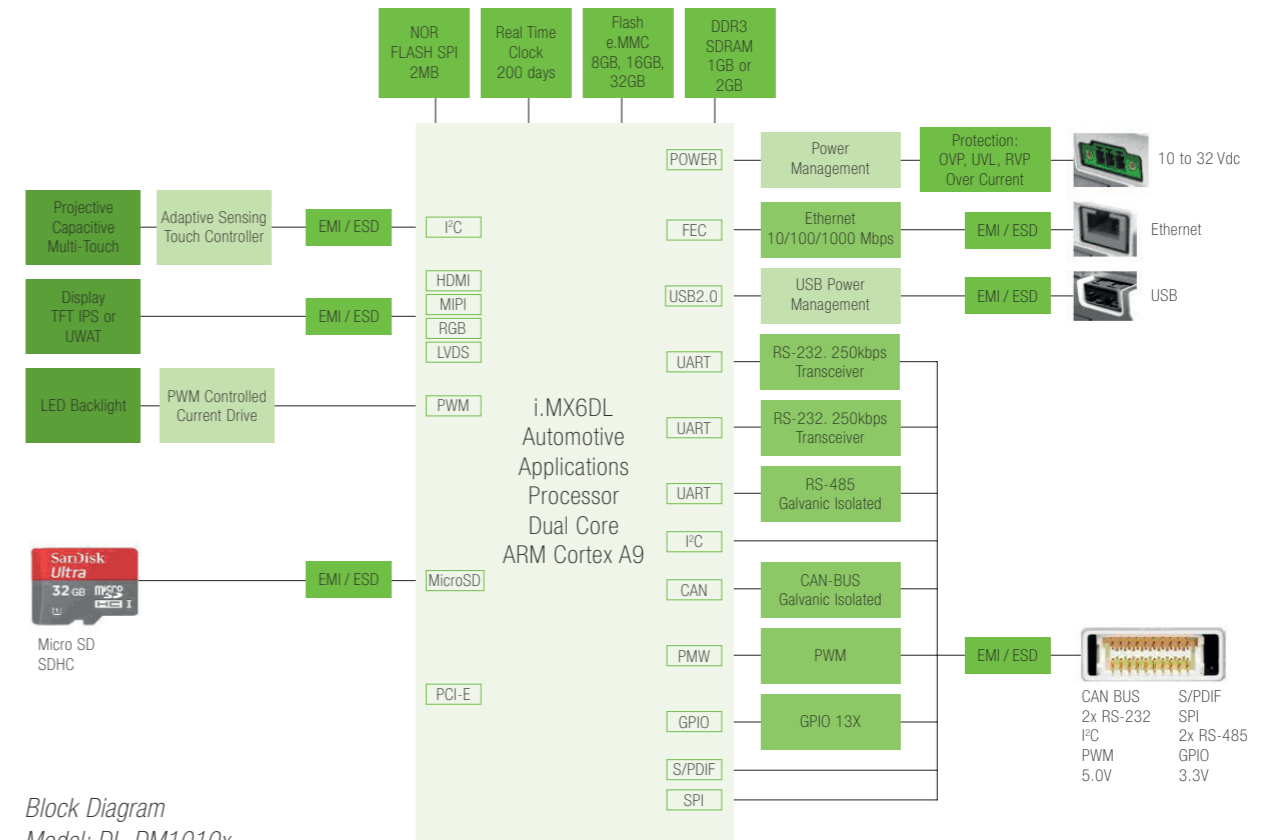
DLOGIC touch display computers / panel-PCs are slim attractive all-in-one human interface solutions ready for use in your application. They are designed for rapid implementation into industrial equipment, appliances, vending-machines, marine, tracking and healthcare and are suitable for use in indoor, outdoor and harsh environments.

It integrates a color display, a projected capacitive touch sensor and an embedded computer into a stainless-steel housing with an aluminum frame creating a solid rugged assembly protecting the sensitive parts. They come with many standard interfaces and are configured with Linux ready for loading and running your applications. They provide a cost effective and fast track to equip your product with state of the art touch-based user interfaces and enhanced embedded computing power.

FEATURES

- Touch display computers ready for integration
- IPS display with high brightness LED backlight, 550 nits
- Optically bonded projected capacitive multi-touch screen
- Slim metal housing with a range of high reliability standard interfaces
- Software board support package, HTML5, JAVA, QT, 2D, 3D graphics and video playback
- Tailored mechanical mounting and integration solutions
- Simple addition of custom interface extensions
- Optional optically bonded 4 mm safety glass solutions, UL751 S46B
- Stainless steel 316L housing option
- Supported by a highly skilled engineering team

THE MOST COMPREHENSIVE ALL-IN-ONE TOUCH DISPLAY COMPUTER SOLUTION ON THE MARKET



Block Diagram Model: DL-DM1010x

SERIES	SIZE	RESOLUTION	OPTICAL BONDING	*STAINLESS STEEL HOUSING	*4 MM SAFETY GLASS FRONT MOUNT	*4 MM SAFETY GLASS REAR MOUNT
GENERAL PARAMETERS						
DL-DM430x	4.3"	480x272			■	
DL-DM500x	5.0"	800x480			■	■
DL-DM700x	7.0"	800x480		■	■	■
DL-DM900x	9.0"	800x480		■	■	■
DL-DM1010x	10.1"	1280x800	■	■	■	■
DL-DM1210x	12.1"	1024x768	■	■	■	
DL-DM1560x	15.6"	1920x1080			■	

*option

EXTENDED LINE UP OF INDUCTIVE COMPONENTS

ABC Taiwan Electronics Co. is characterised by a very large product portfolio with an excellent price/performance ratio. High flexibility which is based on semi automatic processing makes it possible to convert customised requests into serial

products even for medium quantities. ABC has more than 35 years of experience and maintains five factories in Taiwan, China and Malaysia.

PICTURE	FEATURE	SHAPE	SERIES	SPECIALTY / PURPOSE
GENERAL PARAMETERS				
	Non shielded SMD over inductor	Round, rectangular, square, oval	SR, ESR, BR, CB, SQ, SB	General purpose
	Semi shielded SMD power inductor	Round, square	TPI, RN, SN	Semi shielded
	Shielded SMD power inductor	Octagonal, rectangular, square, oval	SH, DH, QS, SS, CS, BS, CU, TPC, SU	Plastic, metal or ferrite base
	Iron powder high current inductor	Square	HP, CIP, HC, HE, DP	High current
	Shielded SMD double choke	Square	BF, SF	Sepic
	SMD common mode choke	Diverse	CF, SF, HDC, PWC	EMI / EMC
	Through hole inductors	Drum core toroid and others	AA, RB, RC, PA, TR, TB, UF	General purpose
	Chip inductor	0201 - 1210	CM, CC, LPI, MH, MS	Networking applications
	RF Chip inductor	0402 - 1210	SW, SWI, HCI	High frequency
	Chip ferrite bead	0402 - 0805	MB, MZ, MU, SM	EMI / EMC

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