

Application Guide

Efficient Building

Passive Solutions for Energy Efficient Systems

TDK offers a wide range of components for many different applications from Industrial Drives and Power Quality to Building Safety and Security Systems for efficient buildings. When integrated together, these devices help to create the ultimate EeB (Energy Efficient Building) with intelligent monitoring and safety. The TDK and EPCOS brand components are organized according to product categories to assist in the search for the right device for your designs.

Capacitors

- Aluminum Snap-in
- Aluminum Screw Terminal
- Film for DC and EMI
- Motor Run Caps
- Power Film (DC and AC)

Ceramic Capacitors

- · Disc Ceramic for EMI
- General Purpose MLCCs

Protection Devices

- Inrush Current Limiters
- Multilayer Varistors
- · Surge Arrestors

Magnetics

- Transformers
- Power Inductors
- Filters and Reactors

Sensors

- NTC Sensors
- Pressure Sensors



PRODUCT DETAILS	TECHNICAL DATA	FEATURES	SERIES	VFD AND MOTORS	AC MOTORS	HVAC CONTROLS	LED LIGHTING	SAFETY AND SECURITY	UPS	SOLAR INVERTERS	POWER QUALITY
ALUMINUM CAPACITORS											
Screw Terminal Snap-In	V _R : 160 600 V DC C _R : 47 220,000 μF Useful life up to: +105 °C, 8000 h +85 °C, 15000 h	High Ripple Current Long useful life (>20 yrs possible) Compact can size	B4370x B4371x B4364x B4354x	•					•	•	•
	FILM	CAPACITORS									
DC Film and Snubbers EMI Suppression	V _R : 63 1300 V DC C _R : 0.001 30 μF V _R : 305 530 V AC C _R : 0.001 480 μF	Wide Capacitance/Voltage Range Low Profile for Solar Inverters High Humidity Capability State of the art X1, X2, Y1 and Y2	B325xx, B326xx B3277x B3202x, B81123, B3291x, B3292x, B3293x	•		•	•	•	•	•	
	POWER FILM CAPACITORS	AND POWER QUALITY PROD	UCTS								
DC Link AC Filtering, AC Motor Run Power Factor Correction Capacitors, Components and Accessories for Power Quality	V _R : 70 4800 V DC C _G : 110 16,000 μF V _R : 250 800 V AC C _G : 3 600 μF V _G : 250 690 V AC C _G : 50 900 μF Up to 15 Stage PFC Controllers, 100 Kvar Contactors, 200 Kvar Thyristor Modules, etc.	Standard Round Can DC Link and AC Filter Caps Rectangular case MKK DC for Custom Applications Motor Run Capacitors, Single and Three Phase PFC Capacitors PFC Controllers, Contactors, fast switching Thyristor Modules and Accessories	B256xx B25640 B32326	•	•				•	•	•
	CERAM	IC CAPACITORS			ı						
Solution Specific MLCCs High Cap Series EMI Suppression Caps	V _R : 50 3000 V DC C _R : 10pF 100 μF V _R : 300 440 V AC C _R : 10pF 10 nF	Wide Capacitance/Voltage Range High Cap for Special Applications Crack mitigation. Soft Termination X1, Y1 and Y2 EMI Caps	C CKG, C-soft CD, CS	•		•	•	•	•	•	
	PROTE	CTION DEVICES			ı						
Varistors Surge Arrestors Inrush Current Limiters Varistors Surge Arrestors Inrush Current Limiters	I _{max} : 25 100 kA (8/20μs) V _{ms} : 75 1100 V V _{ms} : 255 V AC I _{impulse} : 25 100 kA V _F : to 800 V, Cth: 2.3 J/K I _R : to 30 A, R _{25K} : 1120Ω	Block, Strap and Disc MOVs, Chasis or PCB Mount Gas Arrestors Plastic Case PTC, Disc NTC	B722xx B88069 B5910x, B57xxxS	•				•	•	•	•
	INDUCTORS, MA	AGNETICS AND FILTERS						'			
Power Inductors Transformers Chokes Filters and Reactors	L _R : 0.3 1000 μH I _R : 0.11 71 A V _{Isolation} : 1500 V DC 2500 V DC L _R : 0.19 1000 μH I _R : 0.25 56 A V _R : 250 760 V AC I _R : 0.5 2500 A	Shielded and Unshielded SMD Power Inductors Gate Drive, Flyback Transformers Ring Core Chokes D, E and U Core Chokes 3 and 4 Line Filers for 3 Phase, Sine Filters and Reactors	B82559 B824xx, CFL, LTF, SLF, VLx B8280x ECO, SFW, SRX B8272x, B8273x Line Filters, Sine Filters and Reactors	•		•	•	•	•	•	•
		ENSORS									
NTC Temp Sensors Pressure Sensor Transducers and Transmitters	T_{op} : -55 +200 °C/125°C R_{2src} : 5 kΩ 100 kΩ /150 kΩ T_{op} : -10 +100 °C, R_{100rc} : 3300 Ω 0.025 25.0 bar - Transducers 0.125.0 bar - Transmitters	NTC in Metal Tag or Aluminum tube, Epoxy Resin or Glass Encapsulated NTC Elements Piezo Resistive Mems Technology RoHS Compatible, Halogen-free	B57703, B57045 B575xx B58100 B586xx AK2, AT2, ASB, T CAU-T,ACT, ASB, T	•	•	•	•	•			