Radial Leaded CapGuard®

Varistor/Capacitor Combination for EMI/Surge Suppression



GENERAL DESCRIPTION

KYOCERA AVX radial leaded CapGuard® products are designed to provide both transient voltage protection and EMI/ RFI suppression for electronic circuits. CapGuards® are ideally suited to filter out EMI/RFI noise generated by switch mode power supplies or motors on DC lines or I/O lines in electronic circuits. With multilayer varistor (MLV) utilized in CapGuard® product, effective transient voltage protection is achieved to protect sensitive electronics from high voltage transients. The capacitor, on the other hand, absorbs high frequency noise on the line. The MLCC capacitors are designed with temperature stable X7R dielectric, allowing for wide temperature use with good capacitance stability.

GENERAL

- **CHARACTERISTICS** Operating Temperature:
- -55 to +125°C Working Voltage:
- 26Vdc, 45Vdc Capacitance: 0.47µF - 4.7µF
- **FEATURES**
- High Capacitance / EMI Filtering
- **Bi-Directional Protection**
- AEC Q200 gualified
 - Multiple Strike Capability
- · Radial, epoxy encapsulated

APPLICATIONS

· EMI filtering with surge protection

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- DC motors
 - Inductive switching
- Relays
 - Power supplies
- I/O Ports
- and more

HOW TO ORDER

CG	21	AS	26	F	474	M	R T
Series	Size 21	Automotive Series	Working Voltage 26 = 26Vdc	Energy K = 0.6J F = 0.7J	Capacitance 474 = 0.47μF 105 = 1.0μF	Tolerance M = ±20%	Leads R = RoHS Compliant
			45 = 45Vdc	H = 1.2J	475 = 4.7µF		

Packaging Blank = Bulk TR1 = T&R Standard 1

TR2 = T&R Standard 2

TR1



ELECTRICAL CHARACTERISTICS

Part Number	V _{wdc}	V _{wac}	V _B	V _c	I _{vc}	I,	E _T	ELD	I _P	Сар	Tol	V _{JUMP}
CG21AS26F474MR	26.0	18.0	33.0±10%	54	1	15	0.7	1.5	200	0.47	±20%	27.5
CG21AS26F105MR	26.0	18.0	33.0±10%	54	1	15	0.7	1.5	200	1	±20%	27.5
CG21AS26H475MR	26.0	18.0	34.5±10%	60	5	15	1.2	3	300	4.7	±20%	27.5
CG21AS45K474MR	45.0	35.0	56.0±10%	90	1	15	0.6	1.25	200	0.47	±20%	48
CG21AS45K105MR	45.0	35.0	56.0±10%	90	1	15	0.6	1.25	200	1	±20%	48

V_w(DC) DC Working Voltage [V] V (AC)

- AC Working Voltage [V]
- V_R Typical Breakdown Votage [V @ 1mA_{pc}]
- Clamping Voltage [V @ I_{IV}] V_c
- Test Current for V_c
- Maximum leakage current at the working voltage [µA]
- Transient Energy Rating [J, 10x1000µS] E. E_{LD} I_P

Load Dump Energy (x10) [J] Peak Current Rating [A, 8x20µS]

- Typical capacitance [pF] @ frequency specified and $0.5V_{\rm RMS}$ Сар
- Tol Capacitance tolerance [%] from Typ value
- V_{Jump} Jump Start (V)

KIDCERE | The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

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Width

(W)

6.35 Max

(0.250)

Schematic Diagram

С

Style

CG21

Height

(H)

8.25 Max

(0.325)

Lead 1

Lead 2

Thickness

(T)

5.08 Max (0.200)



Lead Spacing

5.08±0.76

 (0.200 ± 0.030)

mm (inches)

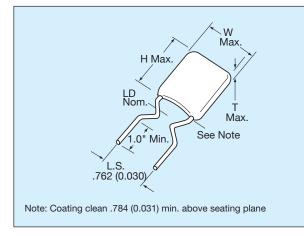
Lead

Diameter

0.508 nom.

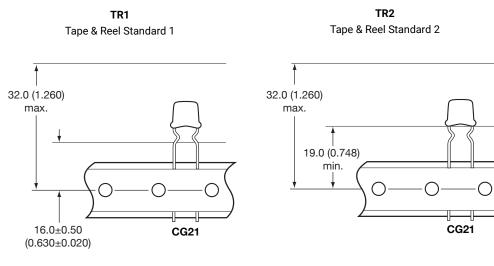
(0.020)

PHYSICAL DIMENSIONS



Drawings are for illustrative purposes only. Actual lead form shape could vary within stated tolerances based on body size.

TAPE & REEL PACKAGING OPTIONS
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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KYOCERA AVX:

CG21AS26F474MR CG21AS26F105MR CG21AS45K474MR CG21AS45K105MR