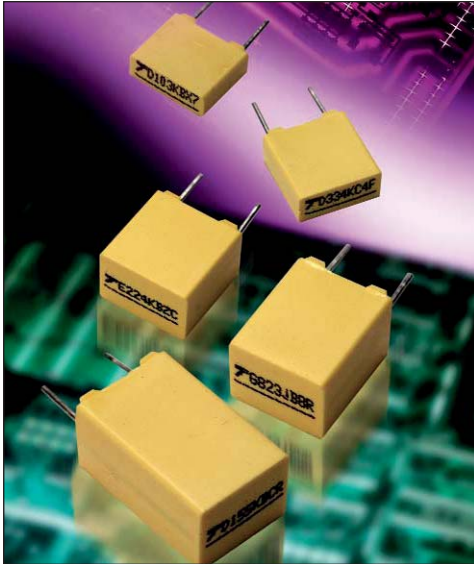


BH 01/02/07/06/05:

Radial Leads (Lead Free Product)

CPM-N----- pitch = 5.08mm (0.200")



GENERAL DESCRIPTION

Dielectric: Metallized polyester film (Polyethylene terephthalate)
 Stacked-film
 Leads: Radial tin - plated wire
 Protection: Plastic case (UL 94: V-O) / Epoxy Resin
 Marking: Logo
 DC Normal Voltage
 Nominal Capacitance
 Tolerance (EIA)
 Batch Code Number
 Example: T D474KC8L
 Delivery Mode: Bulk
 Taped (reel or ammpack)

STANDARDIZATION

Generic specifications:
 CEI 384-1/CECC 30000

Sectional specifications:
 CEI 384-2/CECC 30400
 Complies to special specification CECC30401-069

On the LNZ List:
 Complies with type CPM-N
 RAQ2 production, equivalent AQAP-4 of NATO

APPLICATIONS

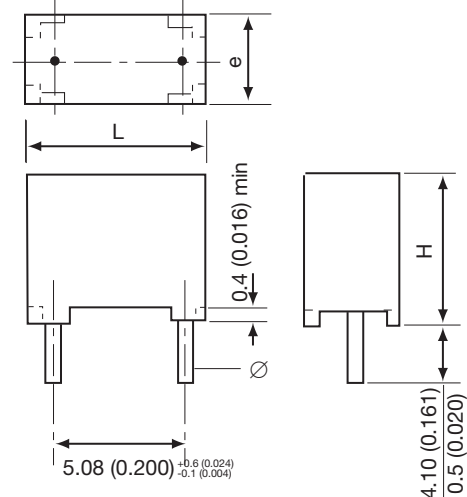
- Supply decoupling
- Filter
- Integrators
- Treatment of analog signals
- Rejection of line perturbations, etc.

Specifically designed of working in severe environmental conditions such as automotive applications: engine control, multiplexing, system, etc.

DIMENSIONS

millimeters (inches)

| Case | L max | H max | e max | $\phi \pm 0.02$ |
|------|-------------|--------------|-------------|-----------------|
| 01 | 7.5 (0.295) | 6.5 (0.256) | 2.5 (0.098) | 0.5 (0.020) |
| 02 | 7.5 (0.295) | 8.0 (0.315) | 3.2 (0.126) | 0.5 (0.020) |
| 05 | 7.5 (0.295) | 12.0 (0.472) | 6.0 (0.236) | 0.5 (0.020) |
| 06 | 7.5 (0.295) | 9.6 (0.378) | 6.0 (0.236) | 0.5 (0.020) |
| 07 | 7.5 (0.295) | 8.0 (0.315) | 5.0 (0.197) | 0.5 (0.020) |



*L dimension measured 3mm above base of case

HOW TO ORDER

BH01
 |
 Type

4
 |
 Class

D
 |
 Voltage

0104
 |
 Capacitance

K
 |
 Tolerance

--
 |
 Suffix



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PERFORMANCE CHARACTERISTICS

| | |
|--------------------|---|
| Climatic Category | 55/125/56 Performance Class 2 |
| Capacitance Range | C_R 1nF to 2.2mF (E12) |
| Tolerance on C_R | $\pm 5\%$; $\pm 10\%$ (other values on request) |
| Nominal Voltages | VR_ 63/100/250/400V VR~ 40/63/160/200V |
| Category Voltage | $V_C = 0.8V_{R-}$ at 100°C & $0.5V_{R-}$ at 125°C |
| Test Voltage | $V_e = 1.6V_{R-}/2s$ at 25°C |
| Life Test | Delta C/C $\leq 5\%$ after 125°C/1000h/0.5V _{R-} |
| Thermal Shock | -55/+125°C/time cycle 1hr/500 cycles delta C/C $\leq 10\%$ D.F. 1kHz $\leq 1\%$ |
| Humidity Test | 85°C/85% HR/1000 h delta C/C $\leq 10\%$ |

- Tangent of Loss Angle: D.F.

| Measurement Frequency | Capacitance | DF: Performance Category 2 |
|-----------------------|-------------------|----------------------------|
| 1kHz | $C_R \leq 1\mu F$ | $\leq 1.0\%$ |
| 100 Hz | $C_R > 1\mu F$ | $\leq 1.0\%$ |

- Insulation Resistance: IR

| Measuring Points | $C_R \leq 0.33\mu F$ | | $C_R > 0.33\mu F$ | |
|------------------------------|----------------------|-----------------|--------------------------|-----------------|
| | IR min (GΩ) | | IR * C_R min (MΩ * μF) | |
| | Performance Class 2 | | Performance Class 2 | |
| Between Terminals | $V_{R-} \leq 100V$ | $V_{R-} > 100V$ | $V_{R-} \leq 100V$ | $V_{R-} > 100V$ |
| | 3.75 | 7.5 | 1.25 | 2.5 |
| Between Terminals and Ground | - 30,000 Ω | | | |

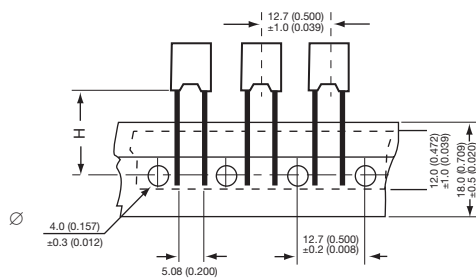
- Max voltage gradient

| V_{R-} | 63 | 100 | 250 | 400 |
|-----------------|----|-----|-----|-----|
| $(dv/dt)_R$ max | 38 | 40 | 110 | 270 |

PACKAGING

millimeters (inches)

| | Panasert | Avisert |
|---|---|--|
| H | 16.5 ± 0.30 (0.65 ± 0.012) | 19.5 ± 0.50 (0.768 ± 0.020) |



Thermoadhesive tape ▲
(Other sizes according to standard CEI : 286-2)
Dimensions: millimeters (inches)

| Case | Quantity | | | | | |
|----------|-------------|------------|-------------|------------|----------|--------------------|
| | Reel | | Ampopack | | Bulk | |
| Suffix x | DB panasert | DD avisert | DA panasert | DC avisert | USA Std. | Europe / Asia Std. |
| 01 | 2500 | | 2500 | | 1000 | 5000 |
| 02 | 1800 | | 2000 | | 1000 | 3800 |
| 07 | 1200 | | 1250 | | 1000 | 2500 |
| 06 | 900 | | 1100 | | 1000 | 1500 |
| 05 | 900 | | 1100 | | 1000 | 1500 |



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CAPACITANCE VALUES (C_R) and NOMINAL VOLTAGES (V_R)

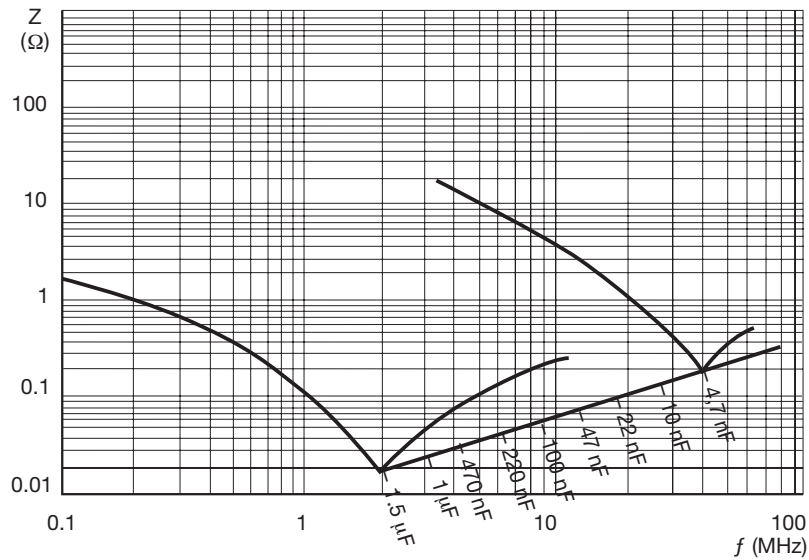
| Capacitance Range (C_R) | Reference | | | |
|-----------------------------|-------------------------|--------------------------|---------------------------|---------------------------|
| | BH | | | |
| | V_R / V_{R-} | | | |
| | 63/40 (voltage code: D) | 100/63 (voltage code: E) | 250/160 (voltage code: G) | 400/200 (voltage code: I) |
| 1,000 pF | BH01 | BH01 | BH01 | BH01 |
| 1,200 | BH01 | BH01 | BH01 | BH01 |
| 1,500 | BH01 | BH01 | BH01 | BH01 |
| 1,800 | BH01 | BH01 | BH01 | BH01 |
| 2,200 pF | BH01 | BH01 | BH01 | BH01 |
| 2,700 | BH01 | BH01 | BH01 | BH01 |
| 3,300 | BH01 | BH01 | BH01 | BH01 |
| 3,900 | BH01 | BH01 | BH01 | BH01 |
| 4,700 pF | BH01 | BH01 | BH01 | BH01 |
| 5,600 | BH01 | BH01 | BH01 | BH02 |
| 6,800 | BH01 | BH01 | BH01 | BH02 |
| 8,200 | BH01 | BH01 | BH01 | BH07 |
| 10,000 pF | BH01 | BH01 | BH01 | BH07 |
| 12,000 | BH01 | BH01 | BH01 | BH07 |
| 15,000 | BH01 | BH01 | BH01 | BH07 |
| 18,000 | BH01 | BH01 | BH01 | BH06 |
| 22,000 | BH01 | BH01 | BH02 | BH06 |
| 27,000 | BH01 | BH01 | BH02 | BH06 |
| 33,000 | BH01 | BH01 | BH02 | BH06 |
| 39,000 | BH01 | BH01 | BH07 | BH05 |
| 47,000 pF | BH01 | BH01 | BH07 | BH05 |
| 56,000 | BH01 | BH01 | BH07 | |
| 68,000 | BH01 | BH01 | BH07 | |
| 82,000 | BH01 | BH01 | BH06 | |
| 100 nF | BH01 | BH01 | BH06 | |
| 120 | BH01 | BH01 | BH05 | |
| 150 | BH01 | BH01 | BH05 | |
| 180 | BH01 | BH02 | | |
| 220 nF | BH01 | BH02 | | |
| 270 | BH02 | BH07 | | |
| 330 | BH02 | BH07 | | |
| 390 | BH07 | BH07 | | |
| 470 nF | BH07 | BH05 | | |
| 560 | BH07 | BH05 | | |
| 680 | BH07 | BH05 | | |
| 820 | BH07 | BH05 | | |
| 1 μ F | BH07 | BH05 | | |
| 1.5 μ F | BH05 | | | |
| 2.2 μ F | BH05** | | | |

**Upon request & only available 50 V (V_R)



CHARACTERISTICS CURVES

Influence of the frequency on the impedance (room temperature).



Nominal RMS voltage vs. frequency (room temperature) allowing a 10°C increase of the external temperature of the box.

