



VENKEL LTD.

SMT Passives
From prototype
to production

MLCC DROP-IN REPLACEMENTS

Don't be sole-sourced, especially during a Hi-Cap shortage.

Venkel's multilayer chip capacitors, *including high values up to 100uF*, are direct crosses to all major manufacturers.

Panasonic ECJ and ECY users: FREE kit when we cross a BOM

High Values

High value MLCCs are available including:

0201, 1uF
0402, 10uF
0603, 22uF
0805, 47uF
1206, 100uF
High Value MLCC Kits

EIA Standard Case Sizes

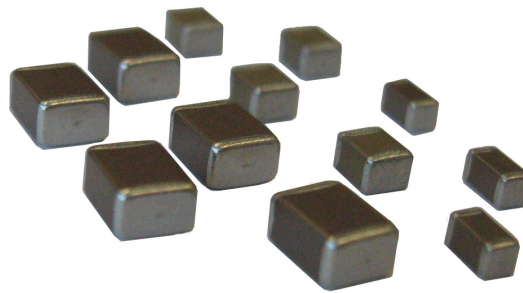
01005, 0201, 0402, 0603, 0805, 1206, 1210, 1812

Film Cap Conversion

Highest NP0 values in the industry to enable easy conversion from Film Caps to MLCCs. Ask for our "NP0 vs. Film Cap" comparison chart.

High Value X7R & X5Rs

With values up to 100uF, our X7R and X5R MLCCs are industry-best to support high value needs.



We cross to:

- Panasonic
- AVX
- Johanson Dielectrics
- Kemet
- Murata
- NIC
- Novacap
- Philips
- Rohm
- Samsung
- TDK
- Taiyo Yuden
- Vishay/Vitramon

Request free samples or a quote
through your salesperson

Visit us on the Web at:
www.venkel.com

Venkel Ltd.

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Fax 512.794.0087
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Full Line of SMT Passive Components
Chip Capacitors - Chip Resistors - Chip Thermistors
Resistor Networks - Chip Inductors - Choke Coils
Ferrite Beads - Engineering Kits

Featured MLCC Cross Reference Panasonic to Venkel

Example: Panasonic P/N ECJ2VB1H104K


Description: 0805, X7R, 50V, 0.1uF, 10% Tol., 100% Matte Tin Termination, Embossed Tape

PANASONIC: ECJ2VB1H104K

ECJ	2	V	B	1H	104	K
PANASONIC Style	SIZE (EIA): Z = 0201 0 = 0402 1 = 0603 2 = 0805 3 = 1206 4 = 1210	PACKAGING: E = 7" Paper Tape 2mm V = 7" Paper Tape 4mm F = 7" Embossed Tape Y = 7" Embossed Tape W = 13" 2mm Z = 13" 4mm C = Bulk Case	DIELECTRIC: C = NP0 B = X7R/X5R F = Y5V	VOLTAGE: 0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V	CAPACITANCE: 1st two digits are significant; third digit denotes number of zeros. 1R0 = 1.0 pF 120 = 12 pF 471 = 470 pF 102 = 1,000 pF 273 = 0.027 μF 474 = 0.47 μF 105 = 1.0 μF	TOLERANCE: B = ± 0.10 pF C = ± 0.25 pF D = ± 0.50 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% M = ± 20% Z = +80/-20%

Panasonic's ECJ2VB1H104K crosses to Venkel P/N C0805X7R500-104KNE

VENKEL: C0805X7R500-104KNE

C0805	X7R	500	—	104	K	N		E
Series/Size See Chart	Temperature Characteristic	Rated Voltage 1st two digits are significant followed by number of zeroes. 4R0 = 4.0 VDCW 6R3 = 6.3 VDCW 100 = 10 VDCW 160 = 16 VDCW 250 = 25 VDCW 500 = 50 VDCW 630 = 63 VDCW 101 = 100 VDCW 201 = 200 VDCW 251 = 250 VDCW		Capacitance (pico - Farads) 1st two digits are significant, followed by number of zeroes. 101 = 100 pF R denotes decimal 6R8 = 6.8 pF	Tolerance Code: *B = ± 0.1 pF *C = ± 0.25 pF *D = ± 0.5 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% M = ± 20% N = ± 30% Z = +80 - 20% P = +100 - 0% * For capacitance values below 10 pF only.	Termination N = Nickel Barrier, Tinned Termination Composition is 100% matte Tin (Sn) ‡ P = Palladium Silver ‡ G = Gold over Nickel Pb: 90% Tin (Sn)/10% Lead (Pb) Termination Standard termination finish for this product is 100% matte Tin (Sn). If a 100% Tin designation is required, replace the N with Sn.	Marking** 6 = EIA "J" Code "Leave blank if No Marking"	Packag- D = Paper Tape (10" Reel) E = Embossed Tape (7" Reel) P = Paper Tape (7" Reel) R = Paper Tape (13" Reel) U = Embossed Tape (13" Reel)

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