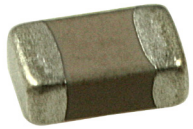
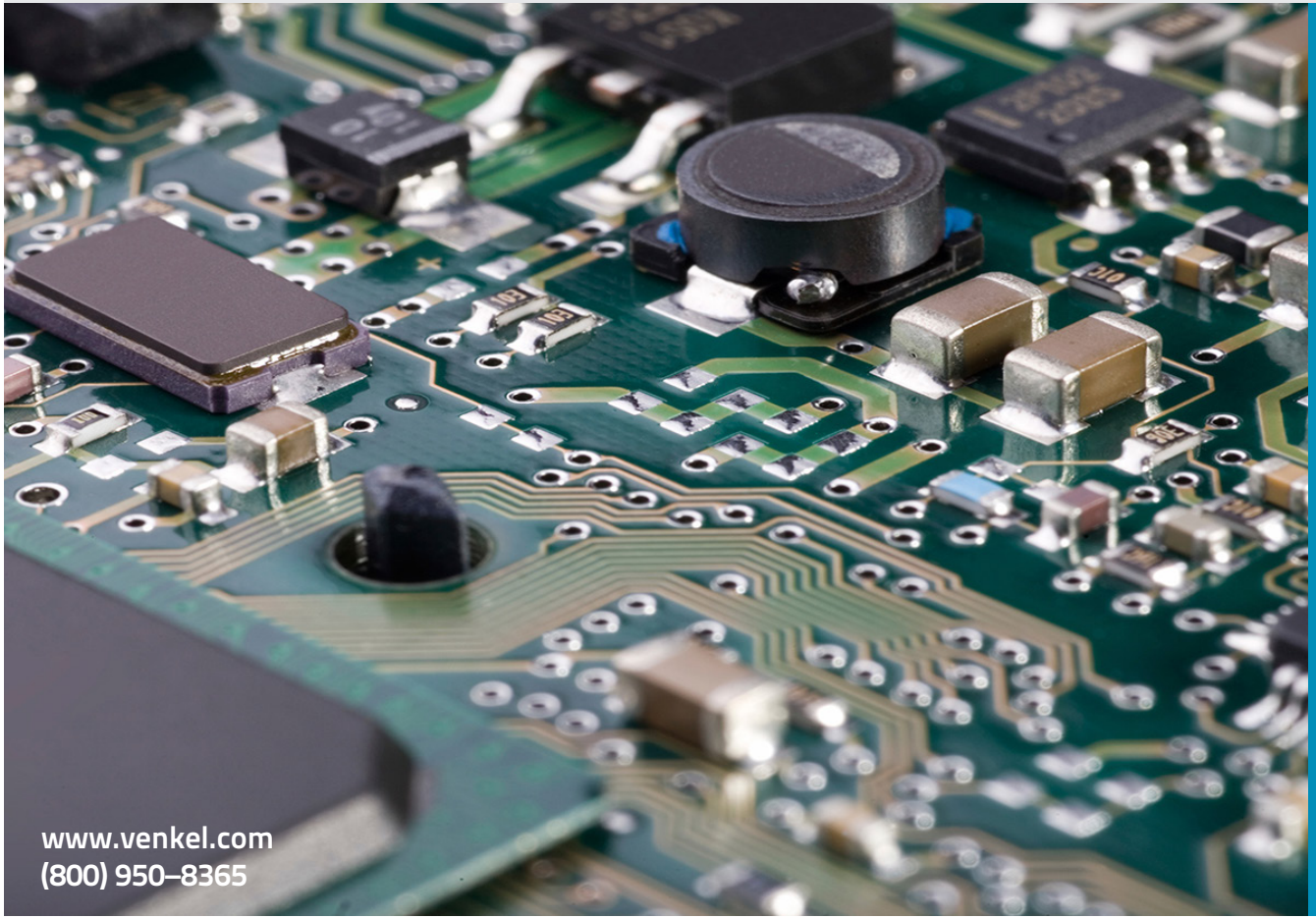
VENKEL LTD.

HIGH-Q CERAMIC CAPACITORS





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HQN SERIES

Ceramic Capacitors are made up of a monolithic structure which provides excellent long term reliability, and come in a wide variety of case sizes and dielectrics.

PRODUCT CROSSES TO:

Manufacturer	Series/Description
Kemet	CBR
Nic	NMC-Q
TDK	C
JOHANSON	250

CONTENTS

NOTE: Please be aware that manufacturer part data is subject to change without notice. All information is provided in good faith, based on information available at the time of document creation. All part number specifications should be verified to confirm equivalence.

NIC COMPONENTS

NIC COMPONENTS PART NUMBER: NMC-Q0201NPO100J50TRPF CROSSES TO VENKEL PART NUMBER: C0201HQN250-2R7CNP

NIC Components Part Number Structure

NMC-Q	0201	NPO	2R7	C	25	TRP	F
SERIES NMC-Q NMC-M	**SIZE** 0201 0402 0603	**DIELECTRIC** NPO	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** ** A = ± 0.05pF *B = ± 0.1 pF *C = ± 0.25 pF *D = ± 0.5 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% ** For capacitance values below 10pF only	**VOLTAGE** 6.3 = 6.3 VDCW 25 = 25 VDCW 50 = 50 VDCW	**PACKAGING** TRP=Tape and reel, paper punched	**ROHS** F = RoHS compliant

Venkel Part Number Structure

C	0201	HQN	250	2R7	C	N	P
CERAMIC CAPACITORS	**SIZE** 0201 0402 0603 0805	**SERIES** HQN	**VOLTAGE** 1st two digits are significant followed by number of zeroes. 250 = 25 VDCW 500 = 50 VDCW 101 = 100 VDCW 151 = 150 VDCW 201 = 200 VDCW 251 = 250 VDCW	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** ** A = ± 0.05pF *B = ± 0.1 pF *C = ± 0.25 pF *D = ± 0.5 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% ** For capacitance values below 10pF only	**TERMINATION** N = 100% matte Tin (Sn) over Nickel	**PACKAGING** D = Paper Tape (10"Reel) E = Embossed Tape (7"Reel) P = Paper Tape (7"Reel) U = Embossed Tape (13"Reel) R = Paper Tape (13"Reel)

KEMET

KEMET PART NUMBER: CBR02C330F9GAC CROSSES TO VENKEL PART NUMBER: C0201HQN250-2R7CNP

KEMET Part Number Structure

CBR	02	C	2R7	C	3	G	A	C
SERIES NMC-Q NMC-M	**SIZE** 02 = 0201 04 = 0402 06 = 0603 08 = 0805	**SERIES** C = STANDARD	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** ** A = ± 0.05pF *B = ± 0.1 pF *C = ± 0.25 pF *D = ± 0.5 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% ** For capacitance values below 10pF only	**VOLTAGE** 9 = 6.3 V 8 = 10 V 3 = 25 V 5 = 50 V 1 = 100 V A = 250 V	**DIELECTRICS** G = C0G	**TERMINATION STYLE** A = N/A	**TERMINATION** C = 100% MATTE SN

Venkel Part Number Structure

C	0201	HQN	250	2R7	C	N	P
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TDK

TDK PART NUMBER: C0603C0G1E150JTXXXX CROSSES TO VENKEL PART NUMBER: C0603HQN250-2R7CNP

TDK - C0603C0G1E150JTXXXX Part Number Structure

C	0603	C0G	1E	2R7	J	T	XXXX
SERIES	**SIZE** 0603 = 0201	**DIELECTRIC** C0G	**VOLTAGE** 1E = 25 VDCW	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** A = ± 0.05 pF B = ± 0.1pF C = ± 0.25 pF D = ± 0.5pF E = ± 0.2pF G = ± 2% J = ± 5%	**PACKAGING** T = TAPE AND REEL	**ALL INTERNAL CODES**

Venkel Part Number Structure

C	0201	HQN	250	2R7	C	N	P
CERAMIC CAPACITORS	**SIZE** 0201 0402 0603 0805	**SERIES** HQN	**VOLTAGE** 1st two digits are significant followed by number of zeroes. 250 = 25 VDCW 500 = 50 VDCW 101 = 100 VDCW 151 = 150 VDCW 201 = 200 VDCW 251 = 250 VDCW	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** ** A = ± 0.05pF *B = ± 0.1 pF *C = ± 0.25 pF *D = ± 0.5 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% ** For capacitance values below 10pF only	**TERMINATION** N = 100% matte Tin (Sn) over Nickel	**PACKAGING** D = Paper Tape (10"Reel) E = Embossed Tape (7"Reel) P = Paper Tape (7"Reel) U = Embossed Tape (13"Reel) R = Paper Tape (13"Reel)

JOHANSON TECHNOLOGY

JOHANSON TECHNOLOGY PART NUMBER: 250R05S2R7BV4T CROSSES TO VENKEL PART NUMBER: C0201HQN250-2R7CNP

Johanson Technology Part Number Structure

250	R05	S	2R7	J	V	4	E
VOLTAGE 250 = 25 V 500 = 50 V 201 = 200 V 251 = 250 V	**SIZE** R05 = 0201 R07 = 0402 R14 = 0603 R15 = 0805	**DIELECTRIC** S = Ultra High Q NPO L = High Q NPO E = Ultra High Q NPO, High Voltage, High Power *T = High Temp (175C), Ultra High Q NPO W = X7R	**CAPACITANCE** 1st two digits are significant; third digit denotes number of zeros, R = decimal 1R0 = 1.0 pF 120 = 12 pF	**TOLERANCE** A = ± 0.05 pF B = ± 0.1pF C = ± 0.25 pF D = ± 0.5pF E = ± 0.2pF G = ± 2% J = ± 5% K = ± 10%	**TERMINATION** V = Ni/Sn (Green) T = Ni/SnPb G = Ni/Au (Green) Non-Mag* U = Cu/Sn (Green) C = Cu/SnPb	**MARKING** 3 = Cap Code and Tolerance 4 = No Marking 6 = EIA Code (Marking on 0805 and larger only)	**PACKAGING** T = Paper 7" Reel R = Paper 13" Reel E = Embossed 7" Reel U = Embossed 13" Reel

Venkel Part Number Structure

C	0201	HQN	250	2R7	C	N	P
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VENKEL LTD.

WHY VENKEL?

Competitive Pricing and Delivery

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- Extensive inventory
- Competitive lead times
- Same day shipments up to 4pm CST

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- Full suite of Supply Chain programs
- Ecommerce solutions
- BOM scrubbing, barcoding and more

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- FREE kits and samples
- Engineering newsletter
- Comprehensive parts database
- Contact via live chat, phone or email
- RoHS, REACH, Conflict

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- Account Manager (Inside Sales)
- Regional Account Manager (Outside Sales)*
- Customer Service
- Supply Chain Services**

Prototype to Production Support

- Flexible quantities supported: prototype, small runs, and high volume production
- Cut tape: as few as 50 pcs on tape
- Partial reels: according to your exact quantity requirements

*If a Regional Account Manager is assigned to your territory

**If enrolled in a Supply Chain Program

Next Steps

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