CANAT02DP Datasheet

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DiGi Electronics Part Number	CANAT02DP-DG
Manufacturer	KYOCERA AVX
Manufacturer Product Number	CANAT02DP
Description	VARISTOR 70V 4A 0405
Detailed Description	70 V 4 A Varistor 2 Circuit Surface Mount, MLCV 040 5 (1012 Metric)

This model CANAT02DP is available at DiGi Electronics.

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Purchase and inquiry

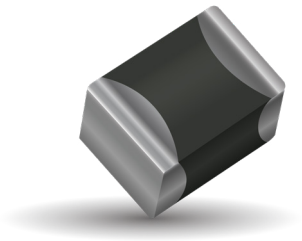
Manufacturer Product Number:	Manufacturer:
CANAT02DP	KYOCERA AVX
Series:	Product Status:
-	Active
Maximum AC Volts:	Maximum DC Volts:
14 V	18 V
Varistor Voltage (Typ):	Current - Surge:
70 V	4 A
Energy:	Number of Circuits:
0.015J	2
Capacitance @ Frequency:	Operating Temperature:
22 pF @ 1 kHz	-55°C ~ 150°C (TA)
Mounting Type:	Package / Case:
Surface Mount, MLCV	0405 (1012 Metric)
Base Product Number:	
CANAT	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8533.40.4000	

Low Capacitance +150°C Automotive Series Varistors

150°C Rated Varistors with Low Signal Distortion / Low Capacitance



GENERAL DESCRIPTION

AVX Low Capacitance High Temperature Multi-Layer Varistors are designed for High Temperature applications up to 150°C. The MLV advantage is EMI/RFI attenuation in the off state. This allows designers the ability to combine the circuit protection and EMI/RFI attenuation function into a single highly reliable device. Low Capacitance Varistors have low signal distortion, low loss and low capacitance.

FEATURES

- Operating Temperature: -55°C to +150°C
- AEC Q200 qualified
- ESD rating to 25kV contact
- EMI/RFI attenuation in off state
- Excellent current and energy handling

APPLICATIONS

- Under hood
- Down Hole Drilling
- High temperature applications
- Communication Bus
- Sensors
- RF Circuits
- Capacitance sensitive applications and more

HOW TO ORDER

CAN SERIES

CAN	AT	01	R	P
Type Controlled Area Network Varistor	**Series** Automotive High Temperature	**Case Size** 01 = 0603 02 = 0405 2-Element 04 = 0612 4-Element	**Packaging** D = 7" (1000 pcs) R = 7" (4,000 pcs) T = 13" (10,000pcs)	**Termination** P = Ni Barrier/ 100% Sn (matte)

RoHS COMPLIANT

AVX Part Number	V_W (DC)	V_W (AC)	V_B	I_L	E_T	I_P	Cap	Case Size	Elements
CANAT01--	≤ 18	≤ 14	120	10	0.015	4	22	0603	1
CANAT02--	≤ 18	≤ 14	70	10	0.015	4	22	0405	2
CANAT04--	≤ 18	≤ 14	100	10	0.015	4	22	0612	4

CANATL SERIES

CAN	ATL	07	R	P
Type Controlled Area Network Varistor	**Series** Automotive High Temperature Low Leakage	**Case Size** 07 = 0603	**Packaging** D = 7" (1000 pcs) R = 7" (4,000 pcs) T = 13" (10,000pcs)	**Termination** P = Ni Barrier/100% Sn

RoHS COMPLIANT

PN	V_W(DC)	V_W(AC)	V_B	V_C	I_{VC}	I_{L1}	I_{L2}	E_T	I_P	Typ Cap	Cap Tol	V_{Jump}	P_{Diss}	Case Size
CANATL07	32	25	61±15%	120	1	1	<1	0.05	5	10	±50%	27.5	0.003	0603

V_W(DC)	DC Working Voltage [V]	I_{L2}	Typical leakage current at 28Vdc, 25°C [µA]
V_W(AC)	AC Working Voltage [V]	E_T	Transient Energy Rating [J, 10x1000µS]
V_B	Breakdown Votage [V @ 1mA$_{DC}$, 25°C]	I_P	Peak Current Rating [A, 8x20µS]
V_C	Clamping Votage [V @ I_{IVC}]	Cap	Capacitance [pF] @ 1MHz and 0.5V_{RMS}
I_{VC}	Test Current for VC [A, 8x20µs]	V_{Jump}	Jump Start [V, 5 min]
I_{L1}	Maximum leakage current at the working voltage, 25°C [µA]	P_{DISS}	Max Power Dissipation [W]

ANTENNAGUARD SERIES

VCAT	06	AG	18	120	Y	A	T	1	A
Type High Temperature Varistor	**Case Size** 04 = 0402 06 = 0603	**Varistor Series** AntennaGuard	**Working Voltage** 18 = 18Vdc	**Cap**	**Non-Std. Cap Tolerance**	**N/A**	**Termination Finish** P = Ni Barrier/ 100% Sn	**Reel Size** 1 = 7" 3 = 13"	**Reel Quantity** A = 4000 or 10,000

AVX Part Number	V_W(DC)	V_W(AC)	I_L	Cap	Cap Tolerance	Case Size
VCAT06AG18120YAT--	≤ 18	≤ 14	10	12	+4, -2pF	0603

V_W(DC)	DC Working Voltage [V]	I_L	Maximum leakage current at the working voltage [µA]
V_W(AC)	AC Working Voltage [V]	Cap	Capacitance [pF] @ 1MHz specified and 0.5V_{RMS}

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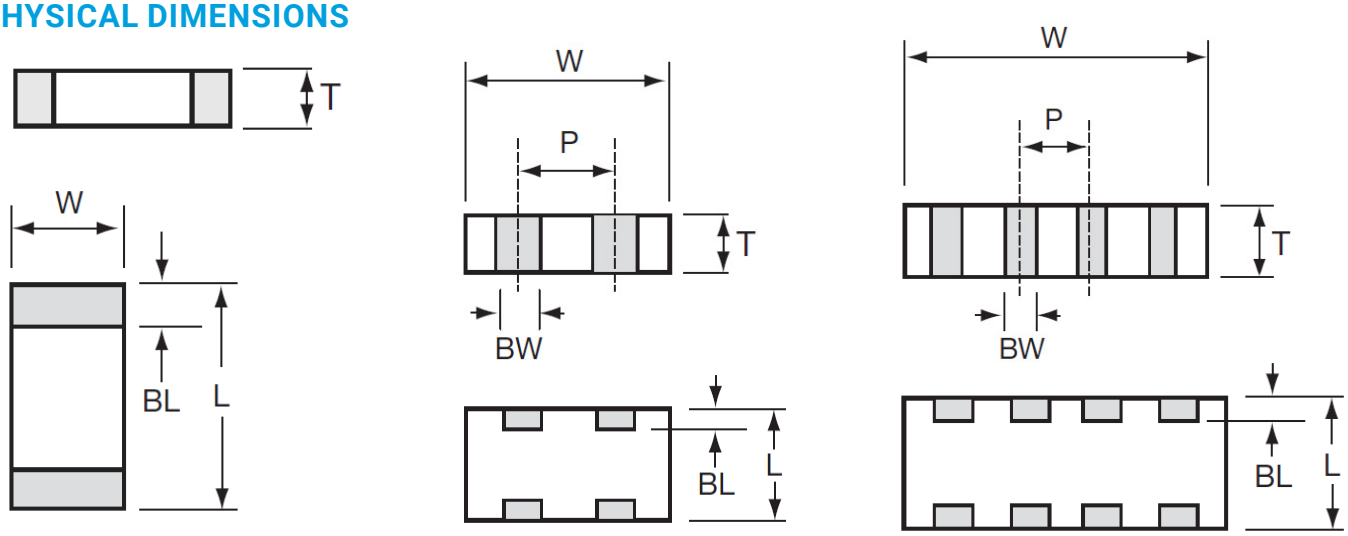
PHYSICAL DIMENSIONS



0603 DISCRETE DIMENSIONS

mm (inches)

L	W	T	BW	BL	P
1.60±0.15 (0.063±0.006)	0.80±0.15 (0.032±0.006)	0.90 MAX (0.035 MAX)	N/A	0.35±0.15 (0.014±0.006)	N/A

0405 2 ELEMENTS ARRAY DIMENSIONS

mm (inches)

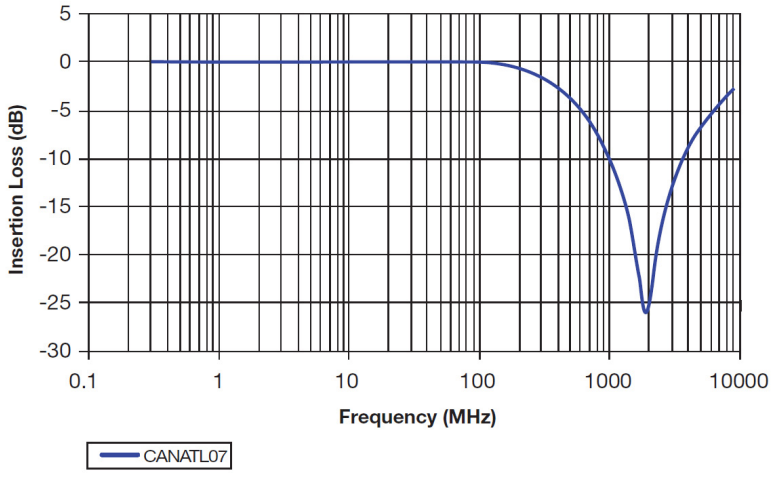
L	W	T	BW	BL	P
1.00±0.15 (0.039±0.006)	1.37±0.15 (0.054±0.006)	0.66 MAX (0.026 MAX)	0.36±0.10 (0.014±0.004)	0.20±0.10 (0.008±0.004)	0.64 REF (0.025 REF)

0612 4 ELEMENTS ARRAY DIMENSIONS

mm (inches)

L	W	T	BW	BL	P
1.60±0.20 (0.063±0.008)	3.20±0.20 (0.126±0.008)	1.22 MAX (0.048 MAX)	0.41±0.10 (0.016±0.004)	$0.18^{+0.25}_{-0.08}$ ($0.008^{+.010}_{-.003}$)	0.76 REF (0.030 REF)

S21 CHARACTERISTICS - CANATL07



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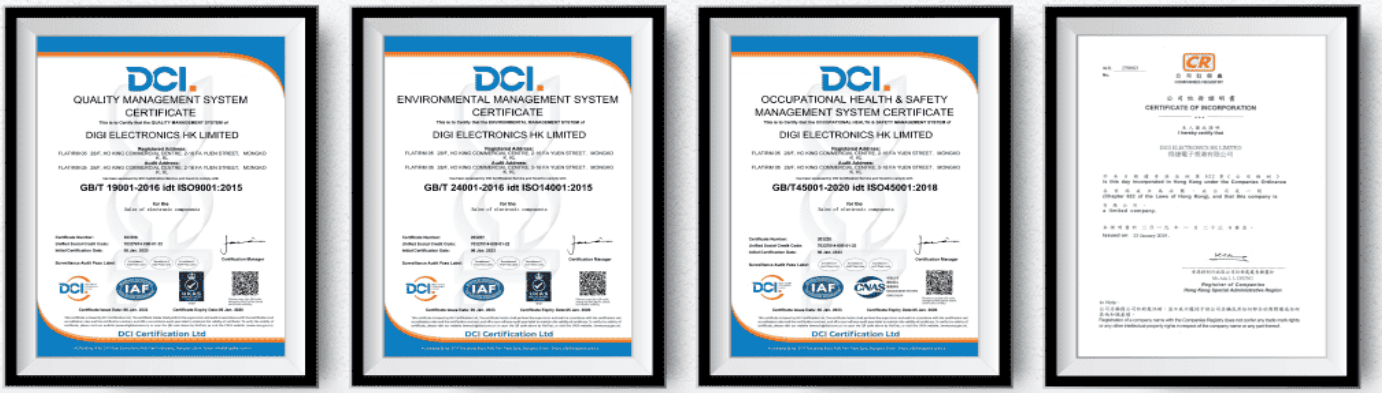

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