



SAP PART NUMBERING MANUAL

VISHAY DALE WIREWOUND RESISTORS



VISHAY DALE WIREWOUND RESISTORS

CA

SAP Part Number

CA000150R00JR058

CA5050R5000KE14

SAP Description

CA-1-8 50 5% R05

CA-5050 .5 10% E14 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	4 digits	5 digits	1 digit	3 digits	Up to 3 digits
CA	0001 0002 4000 thru 4220 5050 thru 5220	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	<p>STANDARD LEAD FREE PACKAGING CODES*</p> <p>E14* = Bulk pack E05* = Tape/reel, 0.2" pitch, 2-7/8" tape spacing, no lead trim (CA0001, CA0002) E70* = Std tape/reel except 1000 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B14 = Bulk pack R05 = Tape/reel, 0.2" pitch, 2-7/8" tape spacing, no lead trim (CA0001, CA0002) R28 = Tape/reel, 0.2" pitch, 3-3/8" tape spacing, no lead trim (up to CA4175, CA5175) R17 = Tape/reel, 0.2" pitch, 3-7/8" tape spacing, no lead trim (above CA4175, CA5175)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>B12 = Bulk pack 100 pieces per box (CA0001, CA0002) S51 = Package per TPI, S70 = Std tape/reel except 1000 pcs, S73 = Std tape/reel except 500 pcs R05, R18, R36, R50, R64, R68, R88, S44 available</p> <p>* Lead free will not be available until Q3 2005</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CA HIGH VOLUME

SAP Part Number

CA000150R00JE66

CA0002R5000KE66

SAP Description

CA0001 50 5% E66 e3

CA0002 .5 10% E66 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	4 digits	5 digits	1 digit	3 digits	Up to 3 digits
CA	0001 0002	R = decimal K = thousand R1500 = .15 ohm 1K000 = 1K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODE E66 = Tape/reel 2,500 pcs/reel	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CANS

SAP Part Number

CANS04081K00MEK

SAP Description

CANS0408 1K 20% EK

NOTE: CANS SERIES NO LONGER MANUFACTURED, AVAILABLE ONLY IF INVENTORY EXISTS

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	4 digits	1 digit	3 digits	Up to 1 digits
CANS	0408 0417 0418 0420 0422 0432	R = decimal K = thousand R150 = .15 ohm 1K50 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$ M = $\pm 20\%$	STANDARD LEAD FREE PACKAGING CODES EK = Bulk pack, 2000pcs ES = Package per TPI	Dash #'s 1 thru 9 as applicable



VISHAY DALE WIREWOUND RESISTORS

CP HIGH VOLUME

SAP Part Number

CP000515R00JE66

CP00101K000KE663

SAP Description

CP0005 15 5% E66 e

CP0010-3 1K 10% E66 e3

MODEL 2 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CP	0002 0003 0005 0007 0010 0015 0020	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E66 = Bulk pack	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPCC / CPCF HIGH VOLUME

SAP Part Number

CPCC0515R00JE66

CPCF0510K00KE66

SAP Description

CPCC05 15 5% E66 e3

CPCF05 10K 10% E66 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPCC CPCF	02 03 05 07 10 02 03 05 07	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E66 = Bulk pack	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CFR

SAP Part Number

CFR562R500JS51

SAP Description

CFR-56 2.5 5% S51

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING
3 digits	2 digits	5 digits	1 digit	3 digits
CFR	01 thru 99 as applicable	R = decimal K = thousand R1500 = .15 ohm 1K000 = 1K ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES R36 = Tape/reel, 0.2in pitch, 2-1/16in tape spacing, lead trim (CFR sizes not listed in R50) R50 = Tape/reel, 0.4in pitch, 2-1/2in tape spacing, lead trim (CFR03, CFR21, CFR22, CFR23 and CFR38 only) B12 = Bulk pack 100 pieces per box NON-STANDARD TIN / LEAD PACKAGING CODES F02 = Foam pack K36 = Ammo pack, tape/reeled per R36 or R50 depending on size call out L03 = Lacer pack M10 = Military pack S27 = Sample pack - best method S51 = Package per TPI S70 = 1,000 pieces per reel, tape/reeled per R36 or R50 depending on size call out



VISHAY DALE WIREWOUND RESISTORS

CL

SAP Part Number

CL6200AAR5000KB14

CL4000XX100RJS5110

SAP Description

CL-6200AA .5 10% B14

CL-4000XX-10 100 5% S51

MODEL 2 digits	SIZE 4 digits	LEFT TERMINAL 1 digit	RIGHT TERMINAL 1 digit	VALUE 4 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 2 digits
CL	4095 4100 4125 4150 4200 4225 4300 6095 6100 6133 6167 6200 6233 6300	A B C D F X	A B E D F X	R = decimal K = thousand R150 = .15 ohm R150 = 0.15 ohm 1K50 = 1,500 ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack NON-STANDARD TIN / LEAD PACKAGING CODES B31 = Four layer bulk pack S27 = Sample pack - best method S51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

CP

SAP Part Number

CP000515R00JB1464

CP002510K00KE14

SAP Description

CP-5-64 15 5% B14

CP-25 10K 10% E14 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	4 digits	5 digits	1 digit	3 digits	Up to 3 digits
CP	0002 = 2 0003 = 3 0005 = 5 0007 = 7 0010 = 10 0015 = 15 0020 = 20 0022 = 22 0025 = 25 002M = 2M	L = milliohm ;(for values below 0.01ohm) R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = $\pm 1.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E14 = Bulk pack (CP0002 thru CP0025) E31 = Four layer bulk pack (CP0002 thru CP0025) E01 = Skin pack STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack (CP0002 thru CP0025) B31 = Four layer bulk pack (CP0002 thru CP0025) B37 = CP002M bulk pack, up to 200 pieces per box J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES B37 = Bulk pack, CP0002 thru CP0025 100 pcs per box P07 = CP0002M tube pack, 26 pieces per tube R03 = Body tape/reel (CP0002, CP0003 and CP0005 only) S27 = Sample pack best method S51 = Package per TPI Lead free will not be available until Q3 2005 CP002M will not be available as lead free	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CP Quick Connect (old Colber product)

SAP Part Number

CP26SM15R00JB14

CP026B1K000KE311

SAP Description

CP-26SM 15 5% B14

CP-26B-1 1K 10% E31 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	4 digits	5 digits	1 digit	3 digits	Up to 3 digits
CP	0026 0050 015B 020B 026B 050B 26SM	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack NON-STANDARD LEAD FREE PACKAGING CODES S51 = Package per TPI	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPCC

SAP Part Number

CPCC0515R00JB311

CPCC101K500KE32

SAP Description

CPCC-5-1 15 5% B31

CPCC-10 1.5K 10% E32 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPCC	02 03 05 10	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E31* = Four layer bulk pack E32* = Two layer bulk pack E01* = Skin pack STANDARD TIN / LEAD PACKAGING CODES B31 = Four layer bulk pack B32 = Two layer bulk pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES S51 = Package per TPI S66 = See Packaging Code page for definition B49 = 4-layer oriented bulk pack * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPCF

SAP Part Number

CPCF05900R0JB32

CPCF0510K00KE32

SAP Description

CPCF-5 900 5% B32

CPCF-5 10K 10% E32 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPCF	02 03 05	R = decimal K = thousand 100R0 = 100 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = $\pm 1.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	<p>STANDARD LEAD FREE PACKAGING CODES *</p> <p>E31* = Four layer bulk pack E32* = Two layer bulk pack E01* = Skin pack</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B31 = Four layer bulk pack B32 = Two layer bulk pack J01 = Skin pack</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>S27 = Sample pack - best method S51 = Package per TPI S66 = See Packaging Code page for definition B49 = 4-layer oriented bulk pack</p> <p>* Lead free will not be available until Q3 2005</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPCL

SAP Part Number

CPCL05R0100JB32

CPCL10R1000JE01

SAP Description

CPCL-5 .01 5% B32

CPCL-10 .1 5% E01 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPCL	02 03 05 10	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1000 = 0.10 ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E31* = Four layer bulk pack E32* = Two layer bulk pack E01* = Skin pack STANDARD TIN / LEAD PACKAGING CODES B31 = Four layer bulk pack B32 = Two layer bulk pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES S27 = Sample pack - best method S51 = Package per TPI S66 = See Packaging Code page for definition B49 = 4-layer oriented bulk pack * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPCP

SAP Part Number

CPCP0515R00JB321

CPCP101K700JE01

SAP Description

CPCP-5-1 15 5% B32

CPCP-10 1.7K 5% E01 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPCP	02 03 05 07 10	R=decimal K=thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E31* = Four layer bulk pack E32* = Two layer bulk pack E01* = Skin pack STANDARD TIN / LEAD PACKAGING CODES B31 = Four layer bulk pack B32 = Two layer bulk pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES S27 = Sample pack - best method S51 = Package per TPI S66 = See Packaging Code page for definition B49 = 4-layer oriented bulk pack * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPL

SAP Part Number

CPL05R0500JB143

CPL10R1000KE01

SAP Description

CPL-5-3 .05 5% B14

CPL-10 .1 10% E01 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
CPL	03 05 07 10 15	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1000 = 0.10 ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E14* = Bulk pack E31* = Four layer bulk pack E01* = Skin pack STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES B37 = Bulk pack, 100 pcs per box R03 = Body tape/reel (CPL03 and CPL05 only) S27 = Sample pack - best method S51 = Package per TPI * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPR

SAP Part Number

CPR0515R00JB149

CPR202K200KE10

SAP Description

CPR-5-9 15 5% B14

CPR-20 2.2K 10% E10 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
CPR	03 05 07 10 15 20	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E14* = Bulk pack E31* = Four layer bulk pack E10* = Foam pack STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack F10 = Foam pack NON-STANDARD TIN / LEAD PACKAGING CODES S27 = Sample pack - best method S51 = Package per TPI B49 = 4-layer oriented bulk pack * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPR High Volume

SAP Part Number

CPR0515R00JE66

CPR102K200KE6631

SAP Description

CPR05 15 5% E66 e3

CPR10-31 2.2K 10% E66 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
CPR	03 05 07 10 15 20	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm See data sheet for available value range	J = +/-5% K = +/-10%	E66 = Lead free bulk pack	Blank = short, 1 pin 30 = long, 1 pin 31 = short, 2 pin 32 = long, 2 pin



VISHAY DALE WIREWOUND RESISTORS

CPS

SAP Part Number

CPS05P100R0KB14

CPS07P2K500JE14

SAP Description

CPS5/2 100 10% B14

CPS7/2 2.5K 5% E14 e3

NOTE: CPS SERIES NO LONGER MANUFACTURED, AVAILABLE ONLY IF INVENTORY EXISTS

MODEL	SIZE	TERMINAL	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	1 digit	5 digits	1 digit	3 digits	Up to 3 digits
CPS	04 05 07	P = /2	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	J = 5.0 K = 10.0	<p>STANDARD LEAD FREE PACKAGING CODES *</p> <p>E14* = Bulk pack E31* = Four layer bulk pack</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B14 = Bulk pack B31 = Four layer bulk pack</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>B49 = 4-layer oriented bulk pack S27 = Sample pack - best method S51 = Package per TPI</p> <p>* Lead free will not be available until Q3 2005</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPSL

SAP Part Number

CPSL05R0500JB145

CPSL10R1000KE315

SAP Description

CPSL-5-5 .05 5% B14

CPSL-10-5 .1 10% E31 e3

MODEL 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPSL	03 05 07 10 15	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1000 = 0.10 ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	<p>STANDARD LEAD FREE PACKAGING CODES *</p> <p>E14* = Bulk pack E31* = Four layer bulk pack</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B14 = Bulk pack B31 = Four layer bulk pack</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>S27 = Sample pack - best method S51 = Package per TPI B49 = 4-layer oriented bulk pack</p> <p>* Lead free will not be available until Q3 2005</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPSM

SAP Part Number

CPSM0315R00JB31

CPSM051K000KE31

SAP Description

CPSM-3 15 5% B31

CPSM-5 1K 10% E31 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
CPSM	03 05	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E31* = Four layer bulk pack STANDARD TIN / LEAD PACKAGING CODES B31 = Four layer bulk pack NON-STANDARD TIN / LEAD PACKAGING CODES S27 = Sample pack - best method S51 = Package per TPI * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CPW / CPWN

SAP Part Number

CPW05R5000JB145

CPWN1010K00KE01

SAP Description

CPW-5-5 .5 5% B14

CPWN-10 10K 10% E01 e3

MODEL 3 or 4 digits	SIZE 2 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CPW CPWN	02 03 05 07 10 15 20	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	D = 0.5 F = 1.0 G = 2.0 H = 3.0 J = 5.0 K = 10	STANDARD LEAD FREE PACKAGING CODES E14 = Bulk pack E31 = Four layer bulk pack E01 = Skin pack STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES B37 = Bulk pack, 100 pcs per box R03 = Body tape/reel (CPW0002, CPW0003 and CPW0005 only) S27 = Sample pack - best method S51 = Package per TPI B49 = 4-layer oriented bulk pack	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

CR

SAP Part Number

CR405015R00JS519

CR5100R5000KE14

SAP Description

CR-4050-9 15 5% S51

CR-5100 .5 10% E14 e3

MODEL 2 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
CR	4050 thru 4220 5050 thru 5220	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES * E14* = Bulk pack E31* = Four layer bulk pack STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack NON-STANDARD TIN / LEAD PACKAGING CODES J01 = Skin pack S27 = Sample pack - best method S51 = Package per TPI B49 = 4-layer oriented bulk pack * Lead free will not be available until Q3 2005	Dash #'s 1 thru 999 as applicable

VISHAY DALE WIREWOUND RESISTORS

CW



SAP Part Number

CW1/21K000JR363

CW005R5000JE12

SAP Description

CW-1/2-3 1K 5% R36

CW-5 .5 5% E12 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	3 digits	5 digits	1 digit	3 digits	Up to 3 digits
CW	1/2 001 01M 002 02M 02B 02C 005 007 010	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>E12 = Bulk pack 100 pcs</p> <p>E36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (CW1/2, CW001, CW01M)</p> <p>E50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (CW002, CW02B, CW02C, CW02M)</p> <p>E55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (CW005, CW007)</p> <p>E69 = Tape/reel, 0.4" pitch, 3-3/8" tape spacing, trim leads (CW010)</p> <p>E70 = Std tape/reel except 1000 pcs (smaller than CW005)</p> <p>E73 = Std tape/reel except 500 pcs</p> <p>E74 = Std except 2000 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B12 = Bulk pack 100 pcs</p> <p>R36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (CW1/2, CW001, CW01M)</p> <p>R50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (CW002, CW02B, CW02C, CW02M)</p> <p>R55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (CW005, CW007)</p> <p>R69 = Tape/reel, 0.4" pitch, 3-3/8" tape spacing, trim leads (CW010)</p> <p>S70 = Std tape/reel except 1000 pcs (smaller than CW005)</p> <p>S73 = Std tape/reel except 500 pcs; S74 = Std except 2000 pcs</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>B14 = Bulk pack</p> <p>K01, K04, K08, K10, K13, K14, K48, K50, K55 and K69 ammo pack available</p> <p>RH9, R05, R06, R07, R08, R16, R18, R20, R21, R29, R30, R34, R39, R40, R44, R47, R48, R64 and R68 available</p> <p>S44, S45, S51, S55, S56, S57, S67 and S75 available</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

ERH / ENH*

SAP Part Number
ERH0533R20FC02

SAP Description
ERH-5 33.2 1% C02

*Standard "Failure Rate Level" for ERH, ENH specials (dash/types) will be "R". If the customer specified a "Failure Rate Level" other than "R" (M or P), this other "Failure Rate Level" must be stated in the "Item Comments" section.

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
ERH ENH	05 10 25 50	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = ±1.0%	STANDARD TIN / LEAD PACKAGING CODES C02 = Card pack J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES M02, M03, M06, M10, M27, M29 available P08, P28, P29 available S27 = Sample pack - best method S51 = Package per TPI	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

ESS / ESW / ESN and EGS / EGW / EGN*

SAP Part Number

EGS0386R60DB1280

ESN2BR1000FB12

SAP Description

EGS-3-80 86.6 .5% B12

ESN-2B .1 1% B12

*Standard "Failure Rate Level" for ESx, EGx specials (dash/types) will be "R". If the customer specified a "Failure Rate Level" other than "R" (M, P or S), this other "Failure Rate Level" must be stated in the "Item Comments" section.

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
ESS ESW ESN EGS EGW EGN	01 02 03 2A 2B 05 10	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = ±0.05% B = ±0.1% C = ±0.25% D = ±0.5% F = ±1.0% H = ±3.0% J = ±5.0%	STANDARD TIN / LEAD PACKAGING CODES B12 = Bulk pack 100 pcs L03 = Lacer pack R36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (Exx01, Exx02, Exx03) R50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (Exx2B) R55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (Exx2A, Exx05, EGx10) R69 = Tape/reel, 0.4" pitch, 3-3/8" tape spacing, trim leads (ESx10) K14 - Ammo pack, 0.4" pitch, 2-7/8" tape spacing (Exx2A, Exx05, Egx10) K36 - Ammo pack, 0.2" pitch, 2-1/16" tape spacing (Exx01, Exx02, Exx03) K50 - Ammo pack, 0.4" pitch, 2-1/2" tape spacing (Exx2B) K69 - Ammo pack, 0.4" pitch, 3-3/8" tape spacing (ESx10) S70 = Std tape/reel except 1000 pcs (smaller than 5W) S73 = Std tape/reel except 500 pcs; S74 = Std except 2000 pcs NON-STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack; F02 = Foam pack M02, M03, M06, M10, M14, M21, M27, M29, P28, P29, P66 and P68 available K01, K04, K08, K10, K13 and K55 available R05, R06, R07, R08, R16, R18, R20, R21, R29, R30, R34, R39, R40, R44, R47, R48, R64, R68, R72 and R81 available S44, S45, S51, S55, S57, S67 and S75 available	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

G / GN

SAP Part Number

G0011K500FR3680

GN0107K500FE14

SAP Description

G-1-80 1.5K 1% R36

GN-10 7.5K 1% E14 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
1 or 2 digits	3 digits	5 digits	1 digit	3 digits	Up to 3 digits
G GN	001 002 003 005 006 05C 010 012 015	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$	STANDARD LEAD FREE PACKAGING CODES* E12 = Bulk pack 100 pcs E36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (G001, G002, G003) E50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (G005, G05C) E55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (G010) E70 = Std tape/reel except 1000 pcs (smaller than G010) E73 = Std tape/reel except 500 pcs E74 = Std except 2000 pcs STANDARD TIN / LEAD PACKAGING CODES B12 = Bulk pack 100 pcs R36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (G001, G002, G003) R50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (G005, G05C) R55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (G010) S70 = Std tape/reel except 1000 pcs (smaller than G010) S73 = Std tape/reel except 500 pcs; S74 = Std except 2000 pcs NON-STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack F02 = Foam pack; L03 = Lacer pack M02, M03, M06, M10, M14, M21, M27, M29, P28, P29 and P65 available K01, K04, K08, K10, K13, K14, K36, K50, K55 and K69 ammo pack available RH9, R05, R06, R07, R08, R16, R18, R19, R20, R21, R29, R34, R39, R44, R47, R48, R64, R68 and R69 available S44, S45, S54, S51, S55, S57 and S67 available	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

HG / NHG

SAP Part Number

HG02510R00FJ0121

HG025111R0JE02

SAP Description

HG-25-21 10 1% J01

HG-25 111 5% E02 e3

MODEL 2 or 3 digits	SIZE 3 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
HG NHG	005 010 025 050 100 250	L = milliohm (below .01 ohm) R = decimal K = thousand 7L000 = .007 ohm R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$	<p>STANDARD LEAD FREE PACKAGING CODES *</p> <p>E02* = Card pack (HG055 through HG050 only)</p> <p>E01* = Skin pack</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>C02 = Card pack (HG055 through HG050 only)</p> <p>J01 = Skin pack</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>C06 = Same as C02, except use of staples is not allowed</p> <p>M02 M03 M06 M10 P08 P28 P29</p> <p>S51 = Package per TPI</p> <p>* Lead free will not be available until Q2 2005</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

HL / NHL

SAP Part Number

HL02506Z4R125JJ15

NHL22507E100R0KE

SAP Description

HL-25-06Z-15 4.125 5% J01

NHL-225-07E 100 10% E01 e3

MODEL 2 or 3 digits	SIZE 3 digits	TERMINAL 2 digits	TERMINALFIN ISH 1 digit	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 1 digit	SPECIAL Up to 2 digits
HL NHL	005 006 010 011 012 015 020 025 026 050 051 060 065 080 100 120 130 160 175 225	01 02 03 04 06 07 14 15 19	E = Lead Free Z = Tin/Lead N = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check data sheet for available value range	F = ±1.0% G = ±2.0% H = ±3.0% J = ±5.0% K = ±10%	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

HL / NHL Flat

SAP Part Number

HL03509Z4R125JJ10

HL07009E2K500JE

SAP Description

HL-35-09Z-10 4.125 5% J01

HL-70-09E 2.5K 5% E01 e3

MODEL	SIZE	TERMINAL	TERMINAL FINISH	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 or 3 digits	3 digits	2 digits	1 digit	5 digits	1 digit	1 digit	Up to 2 digits
HL NHL	024 035 055 070 095	08 09 10 16 18	E = Lead Free Z = Tin/Lead N = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check data sheet for available value range	F = ±1.0% G = ±2.0% H = ±3.0% J = ±5.0% K = ±10%	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

HLA

SAP Part Number

HLA10006Z4R125JJ5

HLA17507E4K250KE

SAP Description

HLA-100-06Z-5 4.125 5% J01

HLA-175-07E 4.25K 10% E01 e3

MODEL 3 digits	SIZE 3 digits	TERMINAL 2 digits	TERMINAL FINISH 1 digit	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 1 digit	SPECIAL Up to 2 digits
HLA	012 015 020 025 026 050 051 060 065 080 100 120 130 160 175 225	02 03 04 05 06 07 14 15 19	E = Lead Free Z = Tin/Lead N = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check data sheet for available value range	G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

HLM / NHLM / HLMT

SAP Part Number

HLM01010Z4R125JJ

NHLM02010E1K100JE

SAP Description

HLM-10-10Z 4.125 5% J01

NHLM-20-10E 1.1K 5% E01 e3

MODEL	SIZE	TERMINAL	TERMINAL FINISH	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 or 4 digits	3 digits	2 digits	1 digit	5 digits	1 digit	1 digit	1 or 2 digits
HLM NHLM HLMT	010 015 020	10	E = Lead Free Z = Tin/Lead N = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check data sheet for available value range	F = ±1.0% G = ±2.0% H = ±3.0% J = ±5.0% K = ±10%	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 9 as applicable for NHLM / HLMT Dash #'s 1 thru 99 as applicable for HLM



VISHAY DALE WIREWOUND RESISTORS

HLT

SAP Part Number

HLT05006Z4R125JJ

HLT22507E2K500JE10

SAP Description

HLT-50-06Z 4.125 5% J01

HLT-225-07E-10 2.5K 5% E01 e3

MODEL 3 digits	SIZE 3 digits	TERMINAL 2 digits	TERMINAL FINISH 1 digit	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 1 digit	SPECIAL Up to 2 digits
HLT	015 020 025 026 050 051 055 060 065 080 095 100 120 130 160 175 225	02 03 04 05 06 07 08 09 10 14 15 16 18 19	E = Lead Free Z = Tin/Lead N = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check data sheet for available value range	G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

HLW / NHLW

SAP Part Number

HLW12R1W4R125JJ6

NHLW20A2E1K000JE

SAP Description

HLW-12-R1W-6 4.125 5% J01

NHLW-20-A2E 1K 5% E01 e3

MODEL	SIZE	TERMINAL	TERMINAL FINISH	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 or 4 digits	2 digits	2 digits	1 digit	5 digits	1 digit	1 digit	Up to 2 digits
HLW NHLW	03 05 06 10 12 15 20	A1 R1 A2 R2	E = Lead Free Z = Tin/Lead W = Nickel	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E = Foam pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack (OEM and Foreign) F = F01 = (Distributor's) NON-STANDARD TIN / LEAD PACKAGING CODES A = S60 D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

HLZ

SAP Part Number

HLZ30007Z4R125JJ

HLZ09006ER5000KE

SAP Description

HLZ-300-07Z 4.125 5% J01

HLZ-90-06E .5 10% E01 e3

MODEL	SIZE	TERMINAL	TERMINAL FINISH	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	3 digits	2 digits	1 digit	5 digits	1 digit	1 digit	Up to 2 digits
HLZ	033 090 099 105 110 140 165 220 240 275 300 375	03 04 06 07 14 15 19	E = Lead Free Z = Tin/Lead N = Nickel	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check data sheet for available value range	G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES E = Skin pack STANDARD TIN / LEAD PACKAGING CODES J = J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES D = S51 = Package per TPI M = M02 N = M10 U = M29 NON-STANDARD LEAD FREE PACKAGING CODES K = E51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

LVR

SAP Part Number

LVR055L000FR5531

LVR03R0100FE12

SAP Description

LVR-5-31 .005 ohm 1% R55

LVR-3 .01 1% E12 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
LVR	01 02 03 05 10	R = decimal L = milliohm (below 0.01 ohm) R1500 = .15 ohm 7L000 = .007 ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>E12 = Bulk pack 100 pcs (LVR01,02,03,05) E36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (LVR01) E50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (LVR02,03) E55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (LVR05) E03 = Lacer pack (LVR02,03,05,10) E02 = Foam pack (LVR10) E70 = Std tape/reel except 1000 pcs (LVR01,02,03) or 500 pcs (LVR05) E73 = Std tape/reel except 500 pcs E74 = Std except 2000 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B12 = Bulk pack 100 pcs (LVR01,02,03,05) R36 = Tape/reel, 0.2in. pitch, 2-1/16in. tape spacing, trim leads (LVR01) R50 = Tape/reel, 0.4in. pitch, 2-1/2in. tape spacing, trim leads (LVR02,03) R55 = Tape/reel, 0.4in. pitch, 2-7/8in. tape spacing, trim leads (LVR05) L03 = Lacer pack (LVR02,03,05,10) F02 = Foam pack (LVR10) S70 = Std tape/reel except 1000 pcs (LVR01,02,03) or 500 pcs (LVR05) S73 = Std tape/reel except 500 pcs; S74 = Std except 2000 pcs</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>K04, K14, K36, K48, K50 and K55 ammo pack available RE3, R06, R07, R12, R16, R39, R44, R47, R48 and R68 available S45, S51, S56, S63, S67, S75 and E16 available</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

NSR

SAP Part Number

230630990035000000

230630990055000000

SAP Description

NSR-1035 5K 20% 20uH E51

NSR-2055 5.2K 13% 54uH E51

MODEL 7 digits	SPECIAL 5 digits	000000 6 digits
2306309	90xxx Where xxx is any number between 001 and 999 This number is assigned by engineering for each new part number	000000 Needed to make part Number work on both Visions and SAPPAS



Vishay Dale
NSR High Performance (NSR HP)

SAP Part Number

NSRHP41051K25M19CE
 NSRHP5186500RK10PV

SAP Description

NSRHP-4105 1K25 20% 19 μ H C E51
 NSRHP-5186-V 500R 10% 10 μ H P E51

Rev. 02/29/16

MODEL	TYPE	RESISTANCE VALUE	TOLERANCE	INDUCTANCE VALUE	CONSTRUCTION TYPE	PACKAGE CODE
5 digits	4 digits	4 digit	1 digit	2 digits	1 digit	1 digit
NSRHP	4xxx 5xxx 6xxx 7xxx Assigned by Vishay Dale Engineering. See Datasheet for Dimensions of each.	1K25 = 1,250 ohms 500R = 500 Ohms	K = 10% M = 20%	19 = 19 μ H 05 = 5 μ H	C = Crimped Cap P = Press Fit Cap	E = Standard Bulk V = Vacuum Pack



VISHAY DALE WIREWOUND RESISTORS

PCT

SAP Part Number

PCT405015R00JB14
 PCT4080R5000KB31

SAP Description

PCT-4050 15 5% B14
 PCT-4080 .5 10% B31

MODEL 3 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits	SPECIAL Up to 2 digits
PCT	4050 4065 4085 4105 4145 4185 4215	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack NON-STANDARD TIN / LEAD PACKAGING CODES S27 = Sample pack - best method S51 = Package per TPI	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

PH

SAP Part Number

PH0504R125FJ01

SAP Description

PH-50 4.125 1% J01

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	3 digits	5 digits	1 digit	3 digits	Up to 3 digits
PH	010 10A 025 25A 050 100	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES M10 = Heat seal military pack P28 = available P29 = available S27 = Sample pack best method S51 = Package per TPI	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

RE

SAP Part Number

RE65G1001C02

RE60N33R0C02150

SAP Description

RH-10 1K 1% RE65G1001 C02

NH-5-150 33 1% RE60N33R0 C02

MODEL 4 digits	CHARACTERISTIC 1 digit	VALUE 4 digits	PACKAGING 3 digits	SPECIAL Up to 3 digits
RE60 (RH-5 Type) RE65 (RH-10 Type) RE70 (RH-25 Type) RE75 (RH-50 Type) RE77 (RH-100 Type) RE80 (RH-250 Type)	G = (Standard) N = (Non-inductive)	1st 3 digits = significant digits, 4th digit = # of zeroes R = decimal 49R9 = 49.9 ohm 1000 = 100 ohm 1001 = 1000 ohm All tolerances are 1% Check datasheet for available value range	STANDARD TIN / LEAD PACKAGING CODES C02 = Card pack (RE60 thru RE75 only) J01 = Skin pack NON-STANDARD TIN / LEAD PACKAGING CODES C06 = Same as C02, except use of staples is not allowed M02, M03, M06, M10, M27 and M29 available P08, P28 and P29 available S27 = Sample pack best method	150 = Hot solder dip (RE60 - RE75 only)



VISHAY DALE WIREWOUND RESISTORS

RER

SAP Part Number

RER65F1001RC02

RER70FR140MC0230

SAP Description

ERH-10 1K 1% RER65F1001R C02

ERH-25-30 .14 1% RER70FR140M C02

MODEL 5 digits	TOLERANCE 1 digit	VALUE 4 digits	FAILURE RATE 1 digit	PACKAGING 3 digits	SPECIAL Up to 3 digits
RER40 (ENH-5 Type) RER45 (ENH-10 Type) RER50 (ENH-25 Type) RER55 (ENH-50 Type) RER60 (ERH-5 Type) RER65 (ERH-10 Type) RER70 (ERH-25 Type) RER75 (ERH-50 Type)	F = ±1.0%	1st 3 digits = significant digits, 4th digit = # of zeroes R = decimal 49R9 = 49.9 ohm 1000 = 100 ohm 1001 = 1000 ohm Check datasheet for available value range	M P R X used when value is outside qualified value range NO JAN BRAND must be added to Sales Text	STANDARD TIN / LEAD PACKAGING CODES C02 = Card pack J01 = Skin pack STANDARD TIN / LEAD SLDC PACKAGING CSL = SLDC Card Pack NON-STANDARD TIN / LEAD PACKAGING CODES C06 = Same as C02, except use of staples is not allowed - Contact Marketing -	30 = Hot solder dip 81 = Hot solder dip after Group A



VISHAY DALE WIREWOUND RESISTORS

RF

SAP Part Number

RF88215R0JB14

SAP Description

RF-88 215 5% B14

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING
2 digits	2 digits	5 digits	1 digit	3 digits
RF	01 thru 99	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack B31 = Four layer bulk pack J01 = Skin pack R03 = Body tape/reel R05 = Tape/reel, 0.2" pitch, 2-7/8" tape spacing, no lead trim R17 = Tape/reel, 0.2" pitch, 3-7/8" tape spacing, no lead trim R28 = Tape/reel, 0.2" pitch, 3-3/8" tape spacing, no lead trim S27 = Sample pack best method S70 = Std tape/reel except 1000 pcs or 500 pcs S73 = Std tape/reel except 500 pcs S74 = Std except 2000 pcs S51 = Package per TPI



VISHAY DALE WIREWOUND RESISTORS

RH / NH

SAP Part Number

RH0054R125FC02

RH0502K300DE03

SAP Description

RH-5 4.125 1% C02

RH-50 2.3K .5% E03 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	3 digits	5 digits	1 digit	3 digits	Up to 3 digits
RH NH	005 010 025 050 100 250	L = milliohm (below .01 ohm) R = decimal K = thousand 7L000 = .007 ohm R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>E02 = Card pack (RH005 thru RH050 only)</p> <p>E01 = Skin pack</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>C02 = Card pack (RH005 thru RH050 only)</p> <p>J01 = Skin pack</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES</p> <p>E05 = Card pack 100 pieces (RH005 thru RH050 only)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>C05 = Card pack 100 pieces (RH005 thru RH050 only)</p> <p>C06 = Same as C02, except use of staples is not allowed</p> <p>M02, M03, M06, M10, M27 and M29 available</p> <p>P08, P28 and P29 available</p> <p>S51 = Package per TPI</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

RLV (M49465/01, /06, /07)

SAP Part Number

M4946506TR0500FB12

M4946507TR0100FR55

SAP Description

LVR-3-26 .05 1% M4946506TR0500F B12

LVR-5-26 .01 1% M4946507TR0100F R55

MODEL 6 digits	SPEC. SHEET NUMBER 2 digits	CHARACTERIS TIC 1 digit	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 3 digits
M49465	01 (RLV10 or SPR-1005-26) 06 (RLV30 or LVR-3-26) 07 (RLV31 or LVR-5-26)	T	R = decimal R1500 = .15 ohm Check datasheet for available value range	F = $\pm 1.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD TIN / LEAD PACKAGING CODES B12 = Bulk pack 100 pcs (RLV30, RLV31) R50 = Tape/reel (RLV30) R55 = Tape/reel (RLV31) L03 = Lacer pack (RLV30, RLV31) J01 = Skin pack (RLV10) K14 = Ammo pack (RLV31) K50 = Ammo pack (RLV30) NON-STANDARD TIN / LEAD PACKAGING CODES S51 = Package per TPI (RLV10) S70 = Std tape/reel except 1000 pcs (RLV30) or 500 pcs (RLV31) per reel S73 = Std tape/reel except 500 pcs S74 = Std except 2000 pcs K55 = Ammo pack



VISHAY DALE WIREWOUND RESISTORS

RS / NS

SAP Part Number

RS1/21K000FR363

NS010R1000JE12

SAP Description

RS-1/2-3 1K 1% R36

NS-10 .1 5% E12 e3

MODEL	SIZE	VALUE	TOLERANC	PACKAGING	SPECIAL
2 digits	3 digits	5 digits	E 1 digit	3 digits	Up to 3 digits
RS NS	1/8 1/4 1/2 01A 01M 002 02M 02B 02C 005 007 010	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = ±0.05% B = ±0.1% C = ±0.25% D = ±0.5% F = ±1.0% G = ±2.0% H = ±3.0% J = ±5.0% K = ±10.0%	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>E12 = Bulk pack 100 pcs</p> <p>E36 = Tape/reel, 0.2 in. pitch, 2-1/16 in. tape spacing, trim leads (RS1/4, RS1/2, RS01A, RS01M)</p> <p>E50 = Tape/reel, 0.4 in. pitch, 2-1/2 in. tape spacing, trim leads (RS002, RS02B, RS02C, RS02M)</p> <p>E55 = Tape/reel, 0.4 in. pitch, 2-7/8 in. tape spacing, trim leads (RS005, RS007)</p> <p>E69 = Tape/reel, 0.4 in. pitch, 3-3/8 in. tape spacing, trim leads (RS010)</p> <p>E70 = Std tape/reel except 1000 pcs (smaller than RS005)</p> <p>E73 = Std tape/reel except 500 pcs</p> <p>E74 = Std except 2000 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>B12 = Bulk pack 100 pcs</p> <p>R36 = Tape/reel, 0.2 in. pitch, 2-1/16 in. tape spacing, trim leads (RS1/4, RS1/2, RS01A, RS01M)</p> <p>R50 = Tape/reel, 0.4 in. pitch, 2-1/2 in. tape spacing, trim leads (RS002, RS02B, RS02C, RS02M)</p> <p>R55 = Tape/reel, 0.4 in. pitch, 2-7/8 in. tape spacing, trim leads (RS005, RS007)</p> <p>R69 = Tape/reel, 0.4 in. pitch, 3-3/8 in. tape spacing, trim leads (RS010)</p> <p>S70 = Std tape/reel except 1000 pcs (smaller than RS005)</p> <p>S73 = Std tape/reel except 500 pcs; S74 = Std except 2000 pcs</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>B14 = Bulk pack</p> <p>F02 = Foam pack, L03 = Lacer pack</p> <p>M02, M03, M06, M10, M14, M21, M27, M29, P28 and P29 available</p> <p>K01, K04, K08, K10, K13, K14, K36, K48, K50, K55 and K69 ammo pack available</p> <p>RE3, RH9, R05, R06, R07, R08, R16, R18, R20, R21, R29, R30, R34, R39, R40, R44, R47, R48, R64 and R68 available</p> <p>S44, S45, S51, S55, S56, S57, S67 and S75 available</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

RSE

SAP Part Number

RSE104K990FF02

RSE02R1500JL03

SAP Description

RSE-10 4.99K 1% F02

RSE-2 .15 5% L03

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
RSE	02 2A 2B 05 5M 07 10	R = decimal K = thousand R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ H = $\pm 3.0\%$	STANDARD TIN / LEAD PACKAGING CODES F02 = Foam pack L03 = Lacer pack STANDARD TIN / LEAD PACKAGING CODES R50 R55 R69 S51 = Package per TPI	Dash #'s 1 thru 999 as applicable

VISHAY DALE WIREWOUND RESISTORS

RW



SAP Part Number

RW80UR249FR36

RW69V101R50

SAP Description

G-3-125 .249 1% RW80UR249F R36

RS-2C-23 100 5% RW69V101 R50

MODEL	CHARACTERISTIC	VALUE	TOLERANCE	PACKAGING
4 digits	1 digit	3 or 4 digits	1 digit	3 digits
RW67	U	4 for U	B = $\pm 0.1\%$	STANDARD TIN / LEAD PACKAGING CODES B12 = Bulk pack 100 pcs R36 = Tape/reel, 0.2in. pitch, 2-1/16in. tape spacing, trim leads (RW70, RW80, RW81) R50 = Tape/reel, 0.4in. pitch, 2-1/2in. tape spacing, trim leads (RW69, RW79) R55 = Tape/reel, 0.4in. pitch, 2-7/8in. tape spacing, trim leads (RW67, RW74) R69 = Tape/reel, 0.4in. pitch, 3-3/8in. tape spacing, trim leads (RW68, RW78) K14 - Ammo pack, 0.4in. pitch, 2-7/8in. tape spacing (RW67, RW74) K36 - Ammo pack, 0.2in. pitch, 2-1/16in. tape spacing (RW70, RW80, RW81) K50 - Ammo pack, 0.4in. pitch, 2-1/2in. tape spacing (R69, RW79) K69 - Ammo pack, 0.4in. pitch, 3-3/8in. tape spacing (RW68, RW78) S70 = Std tape/reel except 1000 pcs (RW69, RW70, RW79, RW80, RW81) S73 = Std tape/reel except 500 pcs NON-STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack L03 = Lacer pack M02, M03, M06, M10, M14, M21, M27, M29 and P28 available K01, K04, K08, K10, K13 and K55 available RE3, R05, R06, R07, R08, R16, R18, R20, R21, R29, R30, R34, R39, R40, R44, R47, R48, R64 and R68 available S74 = Std except 2000 pcs S44, S45, S55, S57, S67 and S75 available = S27, S44, S45, S55, S57, S67 and S75 available
RW68	V	CHARACTERISTIC	D = $\pm 0.5\%$	
RW69		1st 3 digits = significant digits	F = $\pm 1.0\%$	
RW70		4th digit = # of zeroes	This column is used for U Characteristic only!	
RW74		R = decimal		
RW78		49R9 = 49.9 ohm		
RW79		1000 = 100 ohm		
RW80		1001 = 1000 ohm		
RW81				
		3 for V CHARACTERISTIC		
		1st 2 digits = significant digits		
		3rd digit = # of zeroes		
		R = decimal		
		4R7 = 4.7 ohm		
		101 = 100 ohm		
		102 = 1000 ohm		
		49R9 = 49.9 ohm		
		1000 = 100 ohm		
		1001 = 1000 ohm		
		Check datasheet for available value range		



VISHAY DALE WIREWOUND RESISTORS

RWR

SAP Part Number

RWR74S1210FRR55

SAP Description

ESS-5 121 1% RWR74S1210FR R55

MODEL 5 digits	TERMINAL WIRE 1 digit	VALUE 4 digits	TOLERANCE 1 digit	FAILURE RATE 1 digit	PACKAGING 3 digits
RWR71	S	1st 3 digits = significant digits	B = ±0.1%	M	STANDARD TIN / LEAD PACKAGING CODES B12 = Bulk pack 100 pcs L03 = Lacer pack R36 = Tape/reel, 0.2" pitch, 2-1/16" tape spacing, trim leads (RWR80, RWR81, RWR82) R50 = Tape/reel, 0.4" pitch, 2-1/2" tape spacing, trim leads (RWR89) R55 = Tape/reel, 0.4" pitch, 2-7/8" tape spacing, trim leads (RWR71, RWR74, RWR84) R69 = Tape/reel, 0.4" pitch, 3-3/8" tape spacing, trim leads (RWR78) K14 - Ammo pack, 0.4" pitch, 2-7/8" tape spacing (RWR71, RWR74, RWR84) K36 - Ammo pack, 0.2" pitch, 2-1/16" tape spacing (RWR80, RWR81, RWR82) K50 - Ammo pack, 0.4" pitch, 2-1/2" tape spacing (RWR89) K69 - Ammo pack, 0.4" pitch, 3-3/8" tape spacing (RWR78) STANDARD TIN / LEAD SLDC PACKAGING CODES BSL = SLDC Bulk pack 100 pcs RSL = SLDC Tape/reel 100 pcs min S70 = Std tape/reel except 1000 pcs (smaller than 5W) S73 = Std tape/reel except 500 pcs NON-STANDARD TIN / LEAD PACKAGING CODES S74 = Std except 2000 pcs - Contact Marketing -
RWR74	N	4th digit = # of zeroes	D = ±0.5%	P	
RWR78	W	R = decimal	F = ±1.0%	R	
RWR80	Z	49R9 = 49.9 ohm		S	
RWR81		1000 = 100 ohm		X	
RWR82		1001 = 1000 ohm		X - used when value is outside qualified value range	
RWR84		Check datasheet for available value range		Also, "NO JAN BRAND" must be added to Sales Text	
RWR89					



VISHAY DALE WIREWOUND RESISTORS

SPR

SAP Part Number

SPR06762L0000DD26

SPR2156200R00BD

SAP Description

SPR-676-26 .002 .5% S51

SPR-2156 200 .1% S51

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	6 digits	1 digit	1 digit	Up to 2 digits
SPR	0001 thru 9999	L = milliohm (below 0.01 ohm) R = decimal K = thousand 5L0000 = 0.005 ohm R15000 = 0.15 ohm 1K5000 = 1.5K ohm Check Datasheet for available value range	T = $\pm 0.01\%$ Q = $\pm 0.02\%$ P = $\pm 0.025\%$ A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ U = $\pm 1.5\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$ Z = Blank for module	PACKAGING CODES A = S60 C = S52 D = S51 E = S50 F = F01 G = F04 H = B14 J = J01 K = E51 (Pb-free) M = M02 N = M10 P = M15 R = R86 S = S27 T = R36 U = M29 W = M30	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

SPU

SAP Part Number

SPU1043L0000FD

SPU0521L0000FE

SAP Description

SPU-104 .003 1% S51

SPU-52 .001 1% E51 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	3 digits	6 digits	1 digit	1 digit	Up to 2 digits
SPU	050 051 052 053 101 thru 116 118 120 121 122	L = milliohm (below 0.01 ohm) R = decimal K = thousand 5L000 = 0.005 ohm R1500 = 0.15 ohm 1K500 = 1,500 ohm Check datasheet for available value range	B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ U = $\pm 1.5\%$ G = $\pm 2.0\%$	STANDARD LEAD FREE PACKAGING CODES E = E51 STANDARD TIN / LEAD PACKAGING CODES D = S51	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

SR

SAP Part Number

SR55L000JS511

SR5R0100FE14

SAP Description

SR5-1 .005 5% S51

SR5 .01 1% E14 e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
2 digits	1 digit	5 digits	1 digit	3 digits	Up to 3 digits
SR	1 3 5	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$	STANDARD LEAD FREE PACKAGING CODES E14 = Bulk pack E51 = Bulk pack, 1,000 pcs per box STANDARD TIN / LEAD PACKAGING CODES B14 = Bulk pack NON-STANDARD TIN / LEAD PACKAGING CODES S51 = Bulk pack, 1,000 pcs per box	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WEVM (evaluation kit)

SAP Part Number:

SAP Description:

WEVMWBPL0A0001

WEVMWBPL0A v0001

MODEL 4 digits	MODULE THAT KIT IS DESIGNED TO WORK WITH 6 digits	VERSION NUMBER 4 digits	SPECIAL APPLICATION CODE 4 digits
WEVM	WBPL0A – WBPk600L0A00010001	0001 thru 9999 as applicable	0001 thru 9999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WFMV

SAP Part Number:
WFMA2512R1000FEA

SAP Description:
WFMA2512 .1 1% Cu/Mn EA e3

MODEL 3 digits	ELEMENT MAT. 1 digit	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 2 digits
WFM	A = Cu/Mn B = Ni/Cr	1206 2010 2512	R = decimal R1500 = 0.15 ohm Check data sheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EB = Tape/reel 1000 pcs EK = Bulk pack 100 pcs	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WFP

**SAP Part Number:
WFPA39391L000FEA**

**SAP Description:
WFPA3939 .001 1% CuMn EA e4**

MODEL 3 digits	ELEMENT MAT. 1 digit	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 2 digits
WFP	A = CuMn B = NiCrAl	2512 3939	L=milliohm 1L000 = 0.001 ohm Check data sheet for available value range	D = ±0.5% F = ±1.0% G = ±2.0% J = ±5.0%	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EB = Tape/reel 1000 pcs EK = Bulk pack 100 pcs	Dash #'s 1 thru 99 as applicable

VISHAY DALE WIREWOUND RESISTORS

WNP



SAP Part Number

WNP2512R1000FEA

SAP Description

WNP2512 .1000 1% EA e3

3 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 3 digits
WNP	0402 0505 0508 0603 0612 0705 0805 1005 1020 1206 1225 1505 2010 2512	R = decimal R1500 = .15 ohm R0500 = 0.05 ohm Check data sheet for available value range	D = 0.5% F = 1.0% G = 2.0% J = 5.0%	<p>STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86, not for 0603/0805) BA = Bulk pack 100 pcs (B43)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) SB = Packaging defined on TPI (S51)</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs ES = Packaging defined on TPI (E51)</p> <p>Click to go to Packaging Code definition page</p>	Dash #'s 1 thru 99 as applicable Click to go to Permark codes section



VISHAY DALE WIREWOUND RESISTORS

WSBM

SAP Part Number

WSBM8518L1000JK

SAP Description

WSBM8518 .0001 5% K

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	1 digit	Up to 3 digits
WSBM	8518	L = milliohm (ie. .0001 = L1000) Check data sheet for available value range	J = $\pm 5.0\%$	STANDARD LEAD FREE PACKAGING CODE K = Bulk Pack E = Tape/reel T = Tray	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSBS

SAP Part Number

WSBS8518L1000JK

SAP Description

WSBS8518 .0001 5% K

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	1 digit	Up to 3 digits
WSBS	8518 5216 6761 7220 8536	L = milliohm (ie. .0001 = L1000) Check data sheet for available value range	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ L = $\pm 15\%$	STANDARD LEAD FREE PACKAGING CODE K = Bulk Pack E = Tape/Reel T = Tray Pack D = Magazine Pack	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSMS

SAP Part Number

SAP Description

WSMS5515L1600JK

WSMS5515 .00016 5% K

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	1 digit	Up to 3 digits
WSMS	2908 5515	L = milliohm (ie. .0001 = L1000) Check data sheet fo availabler value range	F = $\pm 1.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$	STANDARD LEAD FREE PACKAGING CODE K = Bulk Pack E = Tape/reel	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSC / WSN

SAP Part Number

WSC01/2R7000FTA10

WSC251510R00FEA

SAP Description

WSC-1/2-10 .7 1% R86

WSC2515 10 1% EA e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 3 digits
WSC WSN	01/2 0001 2515 0002 4527 6927	R = decimal K = thousand R1500 = .15 ohm 54R15 = 54.15 ohm Check datasheet for available value range	D = ±0.5% F = ±1.0% G = ±2.0% H = ±3.0% J = ±5.0% K = ±10%	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>EA = Tape/reel full reel quantity EK = Bulk pack 100 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>TA = Tape/reel full reel quantity (R86) BA = Bulk pack 100 pcs (B43)</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES</p> <p>EB = Tape/reel 1000 pcs (note EB is not available on 6927 size)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>TB = Tape/reel 1000 pcs (R79 - note:R79 is not available on 6927 size) TE = AT&T 19.685in. trailer (RA1) TF = DaimlerChrysler 1400 pc reels (RF3) SC = Packaging defined on Prod Card (S50) SB = Packaging defined on TPI (S51) SC = Packaging defined on Prod Card (S50)</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSE

SAP Part Number

WSE08051K100DXTG

WSE080549R90CEEA

SAP Description

WSE0805 1.1K .5% 15 RT1

WSE0805 49.9 .1% 25 EA e3

MODEL	SIZE	VALUE	TOLERANCE	T.C	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	1 digit	2 digits	Up to 2 digits
WSE	0805	R = decimal K = thousand 100R0 = 100 ohm 1K500 = 1.5K ohm Check datasheet for available value range	C = $\pm 0.1\%$ B = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$	X = $\pm 15\text{ppm}/^\circ\text{C}$ E = $\pm 25\text{ppm}/^\circ\text{C}$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (RT1) BA = Bulk pack 100 pcs (B43) NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 7" reels (R79) TC = Tape/reel 13" reels (RG3) SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSF

SAP Part Number

WSF25151K435JKBA8

WSF452720K00FHEA

SAP Description

WSF2515-8 1.435K 5% T-1 B43

WSF4527 20K 1% T-2 EA e3

MODEL	SIZE	VALUE	TOLERANCE	T.C	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	1 digit	2 digits	Up to 2 digits
WSF	2012 2515 4527	R = decimal K = thousand 50R00 = 50 ohm 1K000 = 1K ohm Check datasheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	E = 25 ppm/ $^{\circ}$ C=T-9 H = 50 ppm/ $^{\circ}$ C=T-2 K = 100 ppm/ $^{\circ}$ C=T-1	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86) BA = Bulk pack 100 pcs (B43) NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs TE = AT&T 19.685" trailer (RA1) TF = DaimlerChrysler 1400 pc reels (RF3) SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable

VISHAY DALE WIREWOUND RESISTORS

WSL



SAP Part Number

WSL2010R0150FTA5

SAP Description

WSL-2010-5 .015 1% R86

NOTE: Sample kit part number is VDKWSL/WSR

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 3 digits
WSL	0603 0805 1206 2010 2512 2726 2752 2816 3637 3921 4026 4727 5931 1020	L = milliohm (below 0.01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check data sheet for available value range	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0% Z = blank value for jumper	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EH = Tape/reel 2000 pcs (2816 only) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 0805 sizes) TH = Tape/reel 2000 pcs (RJ9, 2816 only) BA = Bulk pack 100 pcs (B43) NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) TC = Tape/reel 13" reels (RG3) TD = Tape/reel WSL2512 4mm pitch (RF1) TE = AT&T 19.685" trailer (RA1) TF = DaimlerChrysler 1400 pc reels (RF3) SB = Packaging defined on TPI (S51) NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs ED = Tape/reel WSL2512 4mm pitch EC = Tape/reel 13" reels (1206 & larger only) EJ = Tape/reel 12mm ES = Packaging defined on TPI (E51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSK

SAP Part Number

WSK25122L000FEK

SAP Description

WSK-2512 .002 1% EK e3

NOTE: Sample kit part number is VDKWSL/WSR

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 2 digits
WSK	0612 1206 2512	L = milliohm (below 0.01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check data sheet for available value range	D = 0.5% F = 1.0% G = 2.0% J = 5.0% Z = blank value for jumper	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs EC = Tape/reel 13" reels (1206 & larger only)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS WSKW

SAP Part Number
WSKW06122L000FEK

SAP Description
WSKW-0612 .002 1% EK e3

MODEL 3 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 2 digits
WSKW	0612	L = milliohm (below 0.01 ohm) R = decimal 5L000 = .005 ohm R0100 = .01 ohm Check data sheet for available value range	D = 0.5% F = 1.0% G = 2.0% J = 5.0%	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs STANDARD TIN/LEAD PACKAGING CODES TA= Tape/reel full reel quantity NON-STANDARD TIN/LEAD PACKAGING CODES TB= Tape/reel 1000 pcs only (R79) BA= Bulk pack 100 pcs (B43)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSLC

SAP Part Number

WSLC2512R0100JEA

WSLC1206R1500KEA

SAP Description

WSLC2512 .01 5% EA e3

WSLC1206 .15 10% EA e3

MODEL 4 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	PACKAGING 2 digits	SPECIAL Up to 2 digits
WSLC	0603 0805 1206 2010 2512 2816	L = milliohm (below 0.01 ohm) R = decimal 5L000 = 0.005 ohm R1500 = 0.15 ohm Check datasheet for available value range	J = $\pm 5.0\%$ K = $\pm 10.0\%$	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 & 0805 sizes) BA = Bulk pack 100 pcs (B43)</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES</p> <p>EB = Tape/reel 1000 pcs ES = Packaging defined on TPI (E51)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>TB = Tape/reel 1000 pcs only (R79) SB = Packaging defined on TPI (S51)</p>	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSH

SAP Part Number

WSH2818R0100FEA

SAP Description

WSH2818 .01 1% EA e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 2 digits
WSH	2818	L = milliohm (below 0.01 ohm) R = decimal 8L000 = 0.008 ohm R0100 = 0.01 ohm Check data sheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs ES = Packaging defined on TPI (E51) NON-STANDARD TIN / LEAD PACKAGING CODES SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSLM

SAP Part Number

WSLM1206R0100FEA

WSLM12065L000FEK

SAP Description

WSLM1206 .01 1% EA e3

WSLM1206 .005 1% EK e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	2 digits	Up to 2 digits
WSLM	1206	L = milliohm (below 0.01 ohm) R = decimal 5L000 = 0.005 ohm R1500 = 0.15 ohm Check data sheet for available value range	D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs ES = Packaging defined on TPI (E51) STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 & 0805 sizes) BA = Bulk pack 100 pcs (B43) NON-STANDARD TIN/LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSLP

SAP Part Number

WSLP1206R0100FTA

WSLP1206R0500FEA

SAP Description

WSLP1206 .01 1% R86

WSLP1206 .05 1% EA e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	2 digits	Up to 2 digits
WSLP	0603 0805 1206 2010 2512 2726 2816 3921 4026 5931	L = milliohm (below 0.01 ohm) R = decimal 5L000 = 0.005 ohm R1500 = 0.15 ohm Check data sheet for available value range	B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 & 0805 sizes) BA = Bulk pack 100 pcs (B43)</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES</p> <p>EB = Tape/reel 1000 pcs EJ = Tape/reel 12mm EC = Tape/reel 13" reels (1206 & larger only) ES = Packaging defined on TPI (E51)</p> <p>NON-STANDARD TIN/LEAD PACKAGING CODES</p> <p>TB = Tape/reel 1000 pcs only (R79) SB = Packaging defined on TPI (S51)</p>	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSL....E

SAP Part Number

WSL1506E10D0ETA

WSL2512E10E0EEA

SAP Description

WSL-1506E 10 1% 25 R86

WSL-2512E 10K 1% 25 EA e3

MODEL 3 digits	SIZE 5 digits	VALUE AND TOLERANCE 4 digits	T.C 1 digit	PACKAGING 2 digits	SPECIAL Up to 2 digits
WSL	1506E 2010E 2512E	0.5 -X1- W 0.5 -X1,000- X 0.5 -X1,000,000- Y 1.0 -X1- D 1.0 -X1,000- E 1.0 -X1,000,000- F 10W0 = 10 0.5% 100D = 100 1% 3E50 = 3.5K 1% Check datasheet for available value range	X = 15 ppm/K E = 25 ppm/K H = 50 ppm/K K = 100 ppm/K	STANDARD LEAD FREE = STANDARD LEAD FREE* EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86) BA = Bulk pack 100 pcs (B43) NON-STANDARD LEAD FREE PACKAGE CODES EB = Tape/reel 1000 pcs NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) TC = Tape/reel 13 reels (RG3) TD = Tape/reel 4mm pitch (RF1) SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSLS

SAP Part Number

WSLS2512R0100FHEA

WSLS2512R0500FBEA

SAP Description

WSLS2512 .01 1% H EA e3

WSLS2512 .05 1% B EA e3

MODEL 4 digits	SIZE 4 digits	VALUE 5 digits	TOLERANCE 1 digit	TCR / STABILITY 1 digit	PACKAGING 2 digits	SPECIAL 1 digit
WSLS	2512	L = milliohm (below 0.01 ohm) R = decimal 5L000 = 0.005 ohm R1500 = 0.15 ohm Check data sheet for available value range	B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$	A = 10PPM/ $^{\circ}$ C TCR, $\pm 0.05\%$ B = 10PPM/ $^{\circ}$ C TCR, $\pm 0.1\%$ C = 10PPM/ $^{\circ}$ C TCR, $\pm 0.25\%$ D = 10PPM/ $^{\circ}$ C TCR, $\pm 0.5\%$ E = 75PPM/ $^{\circ}$ C TCR, $\pm 0.05\%$ F = 75PPM/ $^{\circ}$ C TCR, $\pm 0.1\%$ G = 75PPM/ $^{\circ}$ C TCR, $\pm 0.25\%$ H = 75PPM/ $^{\circ}$ C TCR, $\pm 0.5\%$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity BA = Bulk pack 100 pcs NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs ES = Packaging defined on TPI (E51) NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 9 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSLT

SAP Part Number

WSLT2512R0100FTA
WSLT2512R1000FEA

SAP Description

WSLT2512 .01 1% R86
WSLT2512 .1 1% EA e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	2 digits	Up to 2 digits
WSLT	0603 0805 1206 2010 2512 2726 2816 3637 3921 4026 4727 5931	L = milliohm (below 0.01 ohm) R = decimal 5L000 = 0.005 ohm R1500 = 0.15 ohm Check data sheet available for value range	B = 0.1% C = 0.25% D = 0.5% F = 1.0% G = 2.0% J = 5.0%	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 & 0805 sizes) BA = Bulk pack 100 pcs (B43) NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs EC = Tape/reel 13" reels (1206 & larger only) ED = Tape/reel WSL2512 4mm pitch EJ = Tape/reel 12mm ES = Packaging defined on TPI (E51) NON-STANDARD TIN/LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSP

SAP Part Number

WSP2512R0100FEA

SAP Description

WSP-2512 .01 1% EA e3

NOTE: Sample kit part number is VDKWSL/WSR

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 3 digits
WSP	2512	L = milliohm (below 0.01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check data sheet for available value range	D = 0.5 F = 1.0 G = 2.0 J = 5.0 Z = blank value for jumper	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86, not for 0603/0805) TG = Tape/reel full reel quantity (RT1, 0603 0805 sizes) BA = Bulk pack 100 pcs (B43) NON-STANDARD TIN / LEAD PACKAGING CODES TB = Tape/reel 1000 pcs only (R79) TC = Tape/reel 13" reels (RG3) TE = AT&T 19.685" trailer (RA1) TF = DaimlerChrysler 1400 pc reels (RF3) SB = Packaging defined on TPI (S51) NON-STANDARD LEAD FREE PACKAGING CODES EB = Tape/reel 1000 pcs EC = Tape/reel 13" reels ES = Packaging defined on TPI (E51)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSPS

SAP Part Number

WSPS03FSR0105JK

SAP Description

WSPS03FS .0105 5% E51

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
4 digits	4 digits	5 digits	1 digit	1 digit	Up to 2 digits
WSPS	03FS thru 9999	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R0105 = .0105 ohm Check datasheet for available value range	F = $\pm 1.0\%$ U = $\pm 1.5\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$ Z = blank for module	PACKAGING CODES D = S51 K = E51 (Pb-free)	Dash #'s 1 thru 99 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSR

SAP Part Number

WSR2R0400FTA8

WSR31L400JEA

SAP Description

WSR-2-8 .04 1% R86

WSR-3 .0014 5% EA e2

NOTE: Sample kit part number is VDKWSL/WSR

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	1 digit	5 digits	1 digit	2 digits	Up to 3 digits
WSR	2 3 5	L = milliohm (below .01 ohm) R = decimal 5L000 = .005 ohm R1500 = .15 ohm Check datasheet for available value range	D = ±0.5% F = ±1.0% G = ±2.0% J = ±5.0% Z = blank value for jumper	<p>STANDARD LEAD FREE PACKAGING CODES</p> <p>EA = Tape/reel full reel quantity (all sizes)</p> <p>EK = Bulk pack 100 pcs</p> <p>STANDARD TIN / LEAD PACKAGING CODES</p> <p>TA = Tape/reel full reel quantity (R86)</p> <p>BA = Bulk pack 100 pcs (B43)</p> <p>NON-STANDARD TIN / LEAD PACKAGING CODES</p> <p>TB = Tape/reel 1000 pcs only (R79)</p> <p>TE = AT&T 19.685" trailer (RA1)</p> <p>TF = DaimlerChrysler 1400 pc reels (RF3)</p> <p>SB = Packaging defined on TPI (S51)</p> <p>NON-STANDARD LEAD FREE PACKAGING CODES</p> <p>EB = Tape/reel 1000 pcs</p> <p>ES = Packaging defined on TPI (E51)</p>	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WSZ

SAP Part Number

WSZ75321K000JBA1

WSZ7532R5000JEA

SAP Description

WSZ7532-1 1K 5% B43

WSZ7532 .5 5% EA e3

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	4 digits	5 digits	1 digit	2 digits	Up to 3 digits
WSZ	7532	R = decimal K = thousand R1500 = 54.15 ohm 54R15 = 54.15 ohm 1K325 = 1,325 ohm Check datasheet for available value range	F = $\pm 1.0\%$ G = $\pm 2.0\%$ H = $\pm 3.0\%$ J = $\pm 5.0\%$ K = $\pm 10\%$	STANDARD LEAD FREE PACKAGING CODES EA = Tape/reel full reel quantity (all sizes) EK = Bulk pack 100 pcs STANDARD TIN / LEAD PACKAGING CODES TA = Tape/reel full reel quantity (R86) BA = Bulk pack 100 pcs (B43) NON-STANDARD TIN / LEAD PACKAGING CODES SB = Packaging defined on TPI (S51)	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

WWA

SAP Part Number

WWA133K000FS5118

SAP Description

WWA-13-18 3K 1% S51

MODEL	SIZE	VALUE	TOLERANCE	PACKAGING	SPECIAL
3 digits	2 digits	5 digits	1 digit	3 digits	Up to 3 digits
WWA	13 24 26 36 48	L = milliohm (below 0.01 ohm) R = decimal K = thousand 7L000 = .007 ohm R1500 = .15 ohm 1K500 = 1.5K ohm Check datasheet for available value range	A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1.0\%$ H = $\pm 3.0\%$	STANDARD TIN / LEAD PACKAGING CODES F02 = Foam pack L03 = Lacer pack S51 = Package per TPI	Dash #'s 1 thru 999 as applicable



VISHAY DALE WIREWOUND RESISTORS

MISCELLANEOUS (cont 1 of 3)

SAP Part Number

SAP Description

81054202S31

810542-02 S31

PART NUMBER 6 digits	DASH TYPE 2 digits	PACKAGING 3 digits
2xxxxx 8xxxxx	00 thru 99 as applicable	



VISHAY DALE WIREWOUND RESISTORS

CHARGES (cont 2 of 3)

SAP Part Number

SAP Description

CHARGE 7 digits	RESISTOR STYLE Up to 11 digits
LOTCHG-	DALEWWSM = Dale Wirewound SMD DALEWWMIL = Dale Wirewound Military DALEWWPOWER = Dale Wirewound Power DALEWWCOM = Dale Wirewound Commercial OTHERRES = Other Resistors



VISHAY DALE WIREWOUND RESISTORS

CHARGES (cont 3 of 3)

SAP Part Number

SAP Description

CHARGE 6 digits	LEAD TIME 2 digits	RESISTOR STYLE 9 digits
FSTTRK	05 = 5 working days 10 = 10 working days 15 = 15 working days	DALEWWSMD = Dale Wirewound SMD DALEWWPOW = Dale Wirewound Power DALEWWMIL = Dale Wirewound Military DALEWWCOM = Dale Wirewound Commercial