

Vishay

Part Numbering / Ordering Information

PART NUMBERING / ORDERING INFORMATION (1)																				
VJ	0805	Y	102	к	X	Α	Α	С	2L											
SERIES ID	CASE CODE (4)	DIELECTRIC	CAPACITANCE NOMINAL CODE	TOLERANCE CODE	TERMINATION	VOLTAGE RATING	MARKING OPTION ⁽²⁾	PACKAGING	PROCESS CODE ⁽⁵⁾											
VJ	0201	A =	Expressed in	$V = \pm 0.05 \text{ pF}$	X = Ni barrier	$Y = 6.3 V_{DC}$	A = unmarked	T = 7" reel /	00, 54 =											
HV	0402	COG (NP0)	picofarad (pF). The first two digits are	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	picofarad (pF). The first	B = ± 0.10 pF	100 % matte tin plate finish	$Q = 10 V_{DC}$	M = marking	plastic tape $C = 7^{"}$ real (standard
GA	0505		significant,	$C = \pm 0.25 \text{ pF}$	B, W =	$J = 16 V_{DC}$	2 character	paper tape	31M, EDG,											
	0603	G = XSR H = X8R	a multiplier.	$D = \pm 0.50 \text{ pF}$	flexible 100 %	$X = 25 V_{DC}$	(size 0805 / 1206)	O = 7" reel /	31X, 31, 34 =											
	0805	$\Omega = high \Omega$	indicates	F = ± 1 %	finish	$Z = 35 V_{DC}$	B – marking	used for AgPd												
	1111	V = Y5V	point.	G = ± 2 %	F, E = AgPd $^{(3)}$	$A = 50 V_{DC}$	optional for automotive	0402 / 0603 / 0805	HIFREQ											
	1206	L=	Example: 0R3 = 0.3 pF	H = ± 3 %	L = Ni barrier tin / lead plate	$B=100\;V_{DC}$	GA31G, GA EDG,	J = 7" reel (low quantity)	temperature											
	1210	ultra high Q low ESR	4R7 = 4.7 pF 102 = 1000 pF	J = ± 5 %	min. 4 % lead	K = 150 V _{DC}	VJ31X, VJ31	E = 7" reel /	4X, 5H = open mode											
	1808	D = HIFREQ	473 = 47 000 pF	K = ± 10 %	C = copper barrier 100 %	C = 200 V _{DC}	vendor ID + date code	plastic tape only used	HV = high											
	1812	X = BX		M = ± 20 %	matte tin plate finish	$P = 250 \; V_{DC}$	(size 0805 / 1206)	automotive VJ31 / VJ34	voltage											
	1825			Z = -20 % / +80 %	(non-magnetic)	$D=300~V_{DC}$	Q = marking	R =	5Z = HVArc Guard®											
	2008					$T = 400 V_{DC}$	for HIFREQ series	11 1/4" / 13" reel / plastic tape	X1, X2 =											
	2220					$E = 500 V_{DC}$	vendor ID + tolerance	Р=	safety caps											
	2225					$L = 630 V_{DC}$	+ 3 character cap. code	11 1/4" / 13" reel / paper tape	X1A, X2A = automotive											
	2525					I = 800 V _{DC}	(size 0603 / 0805 / 0505 /	 I=	safety capacitors											
	3040					G = 1000 V _{DC}	1111 / 2525 / 3838)	11 1/4" / 13" reel / flamed paper tape	SE =											
	3640					R = 1500 V _{DC}	S = marking	used for AgPd termination	Source Energy											
	3838					$F = 2000 V_{DC}$	for safety caps	0402 / 0603 / 0805	Capacitor (SEC)											
	4044					O = 2500 V _{DC}		M = 11 1/4" / 13" reel /	2L, 2M,											
						H = 3000 V _{DC}		plastic tape only used	2MP, 68, 5G =											
						W = 3600 V _{DC}		automotive VJ31 / VJ34	high-rel.											
						$V = 4000 V_{DC}$		W = waffle pack	32 = lead bearing											
						$M = 5000 V_{DC}$			termination series											
						$6 = 6000 V_{DC}$			W1BC =											
						$S = 7200 V_{DC}$ $S = 4 V_{DC}$ only for VJW1BC series			basic commodity											
						$8=8000 \text{ V}_{\text{DC}}$														
						$U = 250 V_{AC}$														

Notes

⁽¹⁾ For details see individual datasheets

⁽²⁾ Marking option is not available in process code W1BC

⁽³⁾ Termination code "E" for conductive epoxy assembly, contact <u>mlcc@vishay.com</u> for availability

⁽⁴⁾ Case size designator may be replaced by a four digit drawing number

⁽⁵⁾ Customer specific process codes are also possible

⁽⁶⁾ Non-magnetic termination "C" is recommended for IR reflow soldering assembly

Revision: 03-Nov-2020

For technical questions, contact: <u>mlcc@vishay.com</u> THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT <u>www.vishay.com/doc?91000</u>



www.vishay.com

Vishay

PART NUMBERING / ORDERING INFORMATION MILITARY PRODUCTS											
CDR31	BX	103	Α	к	Z	Р	Α	Т			
MILITARY STYLE	DIELECTRIC	CAPACITANCE	DC VOLTAGE RATING	TOLERANCE CODE	TERMINATION	FAILURE RATE	MARKING OPTION	PACKAGING			
CDR01	BP	Expressed in	W = 6.3 V	$C = \pm 0.25 pF$	M = silver	M = 1.0 %	A =	T = 7" reel /			
CDR02	BR	picofarad (pF).	X = 10 V	$D = \pm 0.50 \text{ pF}$	palladium	P = 0.1 %	unmarked	plastic tape			
CDR03	BX	The first two	Y = 16 V	F = ± 1 %		R = 0.01 %		J = 7" reel (low qty.)			
CDR04		digits are	Z = 25 V	G = ± 2 %	Y = Ni barrier	S = 0.001 %		C = 7" reel /			
CDR06		significant, the	A = 50 V	J = ± 5 %	100 % tin plate			paper tape			
CDR31		third is a	B = 100 V	K = ± 10 %	matte finish	Consult		R =			
CDR32		multiplier.		M = ± 20 %		factory for		11 1/4" / 13" reel /			
CDR33		An "R" indicates			W, Z =	failure rate		plastic tape			
CDR34		a decimal point.			Ni barrier with	status		P =			
CDR35		Example:			tin / lead plate			11 1/4" / 13" reel /			
CDR36		4R7 = 4.7 pF			min. 4 % lead			paper tape			
CDR37		102 = 1000 pF						B = bulk			
I					U = Ni barrier -						
1					solder coated						
					min. 4 % lead						

Note

• For details of ratings, see individual datasheet

PART NUMBERING / ORDERING INFORMATION DSCC PRODUCTS										
03028-	BX 102		Α	к	Z	С	J			
DSCC	DIELECTRIC	CAPACITANCE	DC	TOLERANCE	TERMINATION	GROUP TESTING	PACKAGING			
STYLE			VOLTAGE	CODE						
			RATING							
03028-	BP	Expressed in	X = 10 V	$C = \pm 0.25 \text{ pF}$	M = silver	C = full group C	T = 7" reel /			
03029-	BX	picofarad (pF).	Y = 16 V	$D = \pm 0.50 \text{ pF}$	palladium	L = 2000 h life test only	plastic tape			
05006-	BR	The first two	Z = 25 V	F = ± 1 %		M = 1000 h life test only	J = 7" reel (low qty.)			
05007-		digits are	A = 50 V	G = ± 2 %	Z = Ni barrier tin /	H = low voltage	C = 7" reel /			
		significant, the	B = 100 V	J = ± 5 %	lead plate	humidity test only	paper tape			
		third is a	C = 200 V	K = ± 10 %	min. 4 % lead	 – group A test only 	O = 7" reel /			
		multiplier.		M = ± 20 %			flamed paper tape			
		An "R" indicates			U = Ni barrier -		R = 11 1/4" / 13" reel /			
		a decimal point.			solder coated		plastic tape			
		Example:			min. 4 % lead		P = 11 1/4" / 13" reel /			
		4R7 = 4.7 pF					paper tape			
		102 = 1000 pF					I = 11 1/4" / 13" reel /			
							flamed paper tape			
							B = bulk			

Note

• For details of ratings, see individual datasheet



Vishay

	PART NUMBERING / ORDERING INFORMATION DSCC PRODUCTS									
4R7 A		С	Z	C	J					
PACITANCE	DC VOLTAGE RATING	TOLERANCE CODE	TERMINATION	GROUP TESTING	PACKAGING					
kpressed in cofarad (pF). the first two digits are nificant, the third is a multiplier. 'R" indicates ecimal point. Example:	A = 50 V B = 100 V C = 200 V K = 250 V	$B = \pm 0.10 \text{ pF}$ $C = \pm 0.25 \text{ pF}$ $D = \pm 0.50 \text{ pF}$ $F = \pm 1 \%$ $G = \pm 2 \%$ $J = \pm 5 \%$ $K = \pm 10 \%$ $M = \pm 20 \%$	M = silver palladium Z = Ni barrier tin / lead plate min. 4 % lead	C = full group C L = 2000 h life test only M = 1000 h life test only H = low voltage humidity test only - = group A test only	T = 7" reel / plastic tape $J = 7" reel (low qty.)$ $C = 7" reel / paper tape$ $O = 7" reel / flamed paper tape$ $R = 11 1/4" / 13" reel /$ $plastic tape$ $P = 11 1/4" / 13" reel /$ $paper tape$ $I = 11 1/4" / 13" reel /$ $flamed paper tape$					
	4R7 PACITANCE pressed in pofarad (pF). the first two digits are nificant, the third is a nultiplier. R" indicates scimal point. Example: 17 = 4.7 pF	4R7APACITANCEDCVOLTAGE RATINGpressed in ofarad (pF).a first two digits are nificant, the third is a nultiplier.R" indicates scimal point. Example: $17 = 4.7 \text{ pF}$	4R7ACPACITANCEDC VOLTAGE RATINGTOLERANCE CODEpressed in ofarad (pF). te first two digits are third is a multiplier. R" indicates cicimal point. Example: $(7 = 4.7 \text{ pF})$ A = 50 V B = ± 0.10 pF C = ± 0.25 pF C = ± 0.25 pF D = ± 0.50 pF F = ± 1 % G = ± 2 % J = ± 5 % M = ± 20 %	4R7ACZPACITANCEDC VOLTAGE RATINGTOLERANCE CODETERMINATIONpressed in ofarad (pF). te first two digits are hificant, the third is a nultiplier. R" indicates cimal point. Example: $ T = 4.7 \text{ pF} $ A = 50 V B = ± 0.10 pF C = ± 0.25 pF D = ± 0.50 pF F = ± 1 % G = ± 2 % J = ± 5 % M = ± 20 %M = silver palladiumZ = Ni barrier tin / lead plate min. 4 % lead	4R7ACZCPACITANCEDC VOLTAGE RATINGTOLERANCE CODETERMINATIONGROUP TESTINGpressed in ofarad (pF). te first two digits are hificant, the third is a nultiplier. R" indicates cimal point. Example: $(7 = 4.7 \text{pF}]$ B = $\pm 0.10 \text{pF}$ C = $\pm 0.25 \text{pF}$ D = $\pm 0.50 \text{pF}$ C = $\pm 0.25 \text{pF}$ D = $\pm 0.50 \text{pF}$ D = $\pm 0.50 \text{pF}$ C = $\pm 0.25 \text{pF}$ D = $\pm 0.50 \text{pF}$ C = $\pm 0.25 \text{pF}$ D = $\pm 0.50 \text{pF}$ L = 2000 h life test only M = 1000 h life test only H = low voltage humidity test only - = group A test only - = group A test only					

Notes

• For details of ratings, see individual datasheet

Contact <u>mlcc@vishay.com</u> for availability

PART NUMBERING / ORDERING INFORMATION MIL-PRF-123											
M123A	A 10 B		В	103	К	Z	Т				
MILITARY STYLE	SLASH SHEET	DIELECTRIC	DC VOLTAGE RATING	CAPACITANCE	TOLERANCE CODE	TERMINATION	PACKAGING				
MIL-PRF-123	10: CKS51 (0805)	BP	B = 50 V	Expressed in	$B = \pm 0.10 \text{ pF}$	Z = Ni barrier	Plastic tape:				
	11: CKS52 (1210)	BX	C = 100 V	picofarad (pF).	$C = \pm 0.25 pF$	with tin / lead	T = 7" reel				
	12: CKS53 (1808)			The first two	$D = \pm 0.50 \text{ pF}$	plate min. 4 % lead	R = 11 1/4" /				
	13: CKS54 (2225)			digits are	F = ± 1 %		13" reel				
	21: CKS55 (1206)			significant, the	J = ± 5 %	S = guarded					
	22: CKS56 (1812)			third is a multiplier.	K = ± 10 %	termination	Low quantity:				
	23: CKS57 (1825)			"R" denotes	M = ± 20 %		J = 7" reel				
				decimal place.							
				Examples:	For BP:		Bulk packaging:				
				1R0 = 1.0 pF	B, C, D, J, K		B = bulk				
				103 = 10 000 pF							
				104 = 100 000 pF	For BX:						
					К, М						

Note

· For details of ratings, see individual datasheet