



RoHS Compliant Axial Multilayer Ceramic Capacitor

I 、 Features

Wide capacitance, temperature, voltage and tolerance range; Industry sizes;
Tape and Reel available for auto placement.

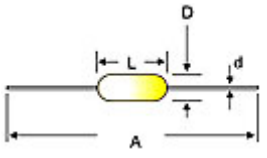
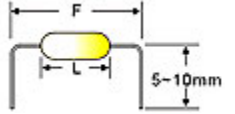
II 、 General Characteristics



	N (NPO)		W (X7R)		Z, Y (Y5V, Z5U)			
Capacitance Range	OR5 to 472		331 to 224		103 to 125			
Temperature Coefficient	0±30PPm/℃ 0±60PPm/℃	(-55 to +125)	±15% (-55℃ to 125℃)		+30%~80% (-25℃ to 85℃) +22%~56% (+10℃ to 85℃)			
Insulation Resistance	C ≤10nF R ≥ 10000MΩ		C ≤25nF R ≥ 4000MΩ					
	C >10nF C. R ≥ 100S		C >25nF C. R ≥ 100S					
With Standing Voltage	2.5 × W V D C							
Dissipation factor	0.15%max (20℃, 1MHZ, 1VDC)		2.5%max (20℃, 1kHz, 1VDC)		5.0%max (20℃, 1kHz, 0.3VDC)			
Rated Voltage	25, 50, 63, 100VDC				25, 50, 63VDC			
Capacitance Tolerance	B=±0.1PF	C=±0.25PF			Top			
	D=±0.5PF	F=±1%	K=±10%	M=±20%	M=±20%	S=	+50	%
	G=±2%	J=±5%	S=		+50		%	
	K=±10%	M=±20%			-20	-20		
Life Test (1000hours)	200% Rated Voltage at +125℃ 1000h				150% Rated Voltage at +85℃ 1000h			
Soderability	SJ/10211-91 4.11		SJ/T10211-91 4.11					
Resistance to Soldering Heat	SJ/T10211-91 4.10		SJ/T10211-91 4.10					
Mechanical Test	SJ/T10211-91 4.9		SJ/T10211-91 4.9					
Temperature Cycling	SJ/T10211-91 4.12		SJ/T10211-91 4.12					
Moisture Resistance	SJ/T10211-91 4.14		SJ/T10211-91 4.14					
Termination adhesion strength	SJ/T10211-91 4.9		SJ/T10211-91 4.9					
Environment Testing	SJ/T10211-91 4.13		SJ/T10211-91 4.13					

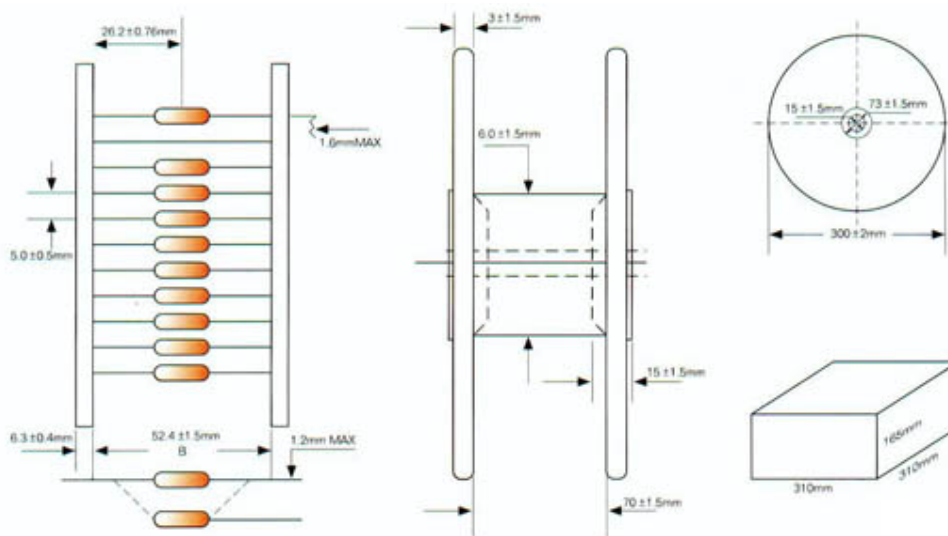
DB ELECTRO^{CO}_{., LTD.}

III、 Size Code Capacitance and Voltage

	Size	Dimensions (mm)				Voltage	Capacitance (PF)		
		Lmax	Dmax	F	D		COG(NPO)	X7R	Y5V(Z5U)
	15	4.3	2.5	5.0	10	0.45	25V	0R5~332	331~104
							50V	0R5~222	331~473
							100V	0R5~102	331~223
	20	5.1	3	7.5	10	0.45	25V	0R5~472	102~224
							50V	0R5~392	102~104
							100V	0R5~152	102~683

IV、 Packaging Style

Reel Package >>>



> Package Q'ty >>>

Size	Reel Package	Ammo Package	Bulk
9	5000	5000	1000,5000
20	2500	2500	500

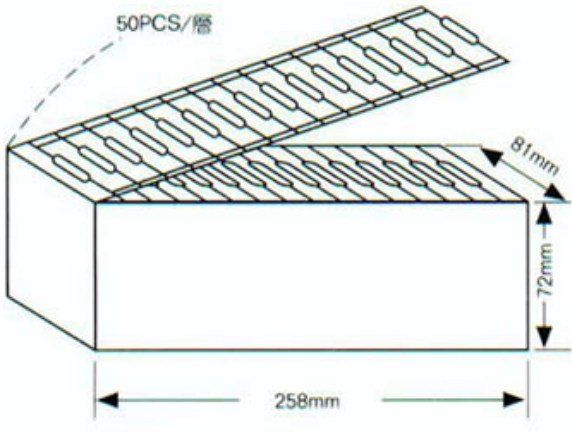


Diagram of the Ammo Package showing dimensions: 258mm, 81mm, 72mm, and 50PCS/box.

HOW TO ORDER MULTILAYER CERAMIC CAPACITOR A SERIES

A15	Z	104	M	1H	TR	52	F
SIZE	T.C.	CAPACITANCE CODE	TOLERANCE	VOLTAGE	PACKAGE	TAPE WIDTH 52mm	RoHS COMPLIANT
A15 A20	N= NPO W= X7R Z= Z5U Y= Y5V	TWO SIGNIFICANT DIGITS + NO. OF 0. EXAMPLE: 10PF= 100 100PF= 101 1'000PF= 102 22'000PF= 223 100'000PF= 104	J= ±5% K= ±10% M= ±20% Z= +80% / -20%	1E= 25V 1H= 50V 2A= 100V	TR= TAPE/REEL TA= AMMO		