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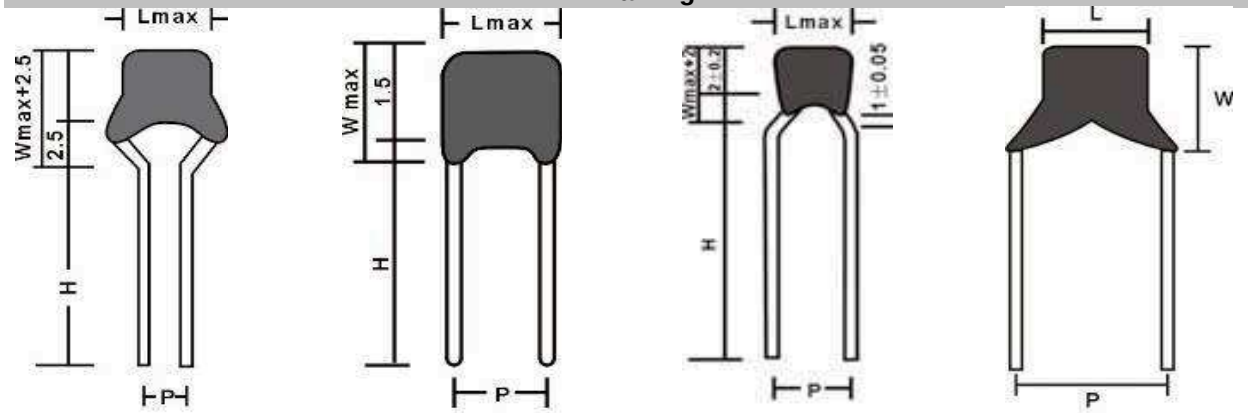
Specifications

Miniature size wide capacitance
Ammo Tape available for automati-placement
Coating by eprox resin, creales the excellent humidity resistance and prevent body from damaging during soldering and washing
Industry standard size and vanous load spacing available.

Note 1: Standard Lead length 10 ± 1mm it can be adjusted between 3,0~35mm per customer request
Note 2: The Diameter of lead is Ø 0,5mm ± 0,05mm
Note 3: The standard shape b, C1 , C3 a Shape and C2 shape are on customer request.
Note 4: High Voltage radial MLCC 200V, 500V, 1000V, 2000V etc. are on customer request.

Drawing



Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
O603	b	2,54	4,2	3,8	3,8	25	**0R5 ~103**	**101 ~105**	**103 ~475**
	C1	5,08				50	**0R5 ~103**	**101 ~105**	**103 ~475**
	C3	5,08				100	**0R5 ~103**	**101 ~105**	**103 ~475**

Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
O805	b	2,54	4,2	3,8	3,8	25	**0R5 ~103**	**101 ~105**	**103 ~475**
	C1	5,08				50	**0R5 ~103**	**101 ~474**	**103 ~105**
	C3	5,08				100	**0R5 ~103**	**101 ~104**	**103 ~104**

Multilayer Capacitor Radial Style

Part No.: **I29001**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.08.2015
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 8

Customer:

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Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
1206	a	2,54	5,5	4,5	3,8	25	**0R5 ~104**	**101 ~225**	**103 ~106**
	b	3,5				50	**0R5 ~473**	**101 ~225**	**103 ~106**
	C1	5,08				100	**0R5 ~473**	**101 ~105**	**103 ~155**

Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
1210	a	2,54	5,5	5,5	3,8	25	**0R5 ~104**	**101 ~106**	**103 ~106**
	b	3,5				50	**0R5 ~473**	**101 ~475**	**103 ~106**
	C1	5,08				100	**0R5 ~473**	**101 ~105**	**103 ~155**

Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
1812	b	5,08	8,5	6,5	3,8	25	**0R5 ~104**	**101 ~106**	**103 ~106**
						50	**0R5 ~104**	**101 ~106**	**103 ~106**
						100	**0R5 ~473**	**101 ~105**	**103 ~155**

Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
2225	b	5,5	10,5	9,5	3,8	25	**0R5 ~104**	**101 ~106**	**103 ~106**
						50	**0R5 ~104**	**101 ~106**	**103 ~106**
						100	**0R5 ~473**	**101 ~105**	**103 ~155**

Chip	Shape	Dimension				Volt	Capacitance Range (pf)		
		P±0,5	Lmax.	Wmax	Tmax.		NPO	X7R	Y5V(Z5U)
3035	b	7,5	12,5	10,5	4,5	25	**0R5 ~104**	**101 ~106**	**103 ~106**
						50	**0R5 ~104**	**101 ~106**	**103 ~106**
						100	**0R5 ~473**	**101 ~105**	**103 ~155**

T.C	NPO / COG	X7R/B	Y5V(Y/F) Z5U/ E
Dielectric Type	Stable Class I Dielectric	Stable Class II Dielectric	
Electrical properties	With neglitable dependencs of electrical pro-perties on temeprature, voltage and frequency and time	With predictable change of properties with temeprature, voltage frequency and time this dielectric is ferroeletric and offer higher capacitance ranges than class I	With high twist dielectric constant and greater variation of properties with temperature and test conditions, very high capacticance per unit volume.
Application	Use in circuits reoring stable performance	Use as blocking, coupling, By-passing discriminating elements.	Suited for By-passing and coupling application such as store power and memory circuit
Capacitance Range	1pf ~ 10nf	100pf ~ 5µF	1nf ~ 14,7µF
Operating Temperature	0 ±30ppm/°C 55°C ~ +125°C	±15% 55°C ~ +125°C	.+30% ~ -80% - 25°C ~ +85°C / .+22% ~ -56% - 10°C ~ +85°C

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Electrical Properties standard

Item	Test Standard			
	NPO/CG/GH/RH/UJ/SL	X7R (B)	Z5U / E	Y5V (Y/F)
Capacitance	±5%	±10%	.+80% ~ -20%	±20%
Dissipation Factor	<0,15%	<3,5%	<5%	<7,5% (200nf)
				<10% (200-470nf)
				<15% (470-1000nf)
Insulation Resistance	<10nf	<25nf	<25nf	<25nf
	IR<1000C0M Ω	IR>25nf	IR>25nf	IR>25nf
	C> 10nf	C> 25nf	C> 25nf	C> 25nf
	R * C >100S	R * C >100S	R * C >100S	R * C >100S
Withstanding Voltage	2,5 rated voltage	2,5 rated voltage	2,5 rated voltage	2,5 rated voltage

Test Condition

Test Frequency	1MHz (C>1000pf 1KHz)	1KHz	1KHz	1KHz
Test Voltage of Cap & D.F.	1 ± 0,2V	1 ± 0,2V	0,3 ± 0,2V	0,3 ± 0,2V
Test Voltage of IR	Rated Voltage	Rated Voltage	Rated Voltage	Rated Voltage
Temperature	10 ~ 25°C	10 ~ 25°C	10 ~ 25°C	10 ~ 25°C
Humidity	<75%	<75%	<75%	<75%

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Quality Item & Reliability inspection

Item	Test Specifications		Test Methods
Solderability	Termination area shall be at least 75% covered with a new solder coating.		The lead wire of acapacitor shall be dipped into a 25% methanol solution of rosin and then into molten solderol 235°C for 2 + 0.5seconds,in both cases the depth of dipping is up to about 2.5 to 3.0mm from the rool of lead.
sistance to soldering h	There shall be no evidence of damage or flash over during the test and sign in tocus.		The lead wire shall be immersed ito the melted solder of 260 +5°C up to about 2.5 to 3.0mm from the main body for 5 +0.5sec and the specitied items shall be measured after leaving for 24 +/-2hours
	T.C.	∆ C/C<	
	CG/CH/R/H	0,5% or 0,5pf	
	UJ/SL	1% or 1pf	
	B	± 10%	
	Y (F) E	± 20%	
Life Test	Apperance	There shall be no evidence of damage or flash over during the test and signn in focus	Condition: NPO / X7R / Y5V / Z5U Temperature: .+125°C / .+85°C Time: T=1000h Voltage: V=1,5Vr Recovery time: 24 ± 1h
	Capacitance change	NPO:<2%; X7R <20%; Y5V:<30%	
	D.F	NPO: <0,3	
		X7R: <5%	
		Y5V: <7%	
	I.R	R.C. <258	

Multilayer Capacitor
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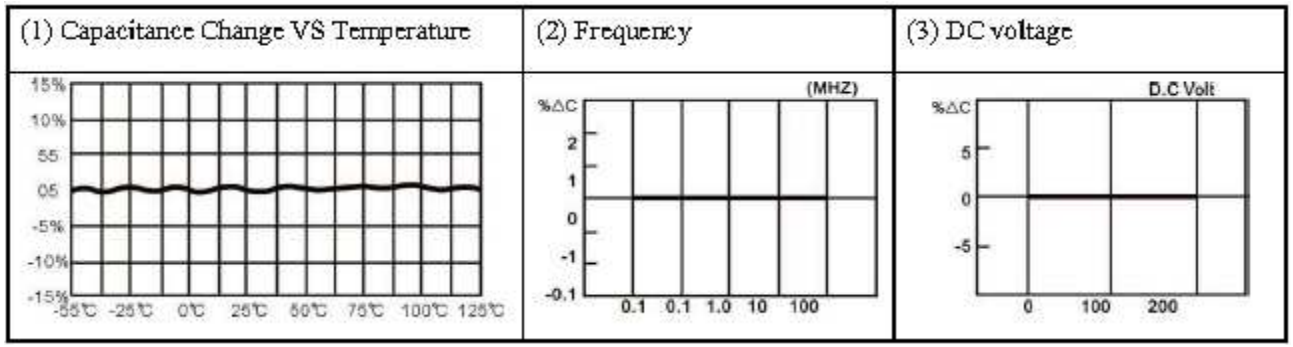
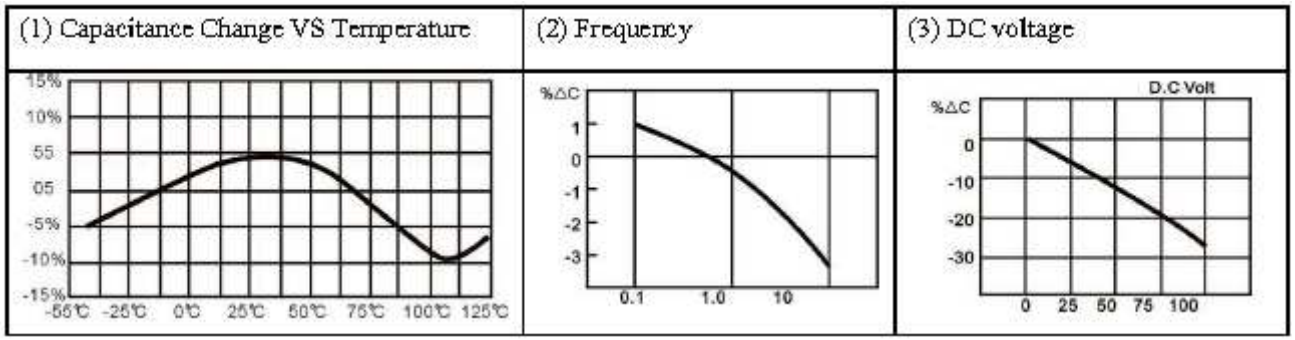
Capacitance Change: VS Temperature Characteristics; Voltage; Frequency Profiles

NPO



X7R



Multilayer Capacitor
Radial Style

Part No.: **I29001**

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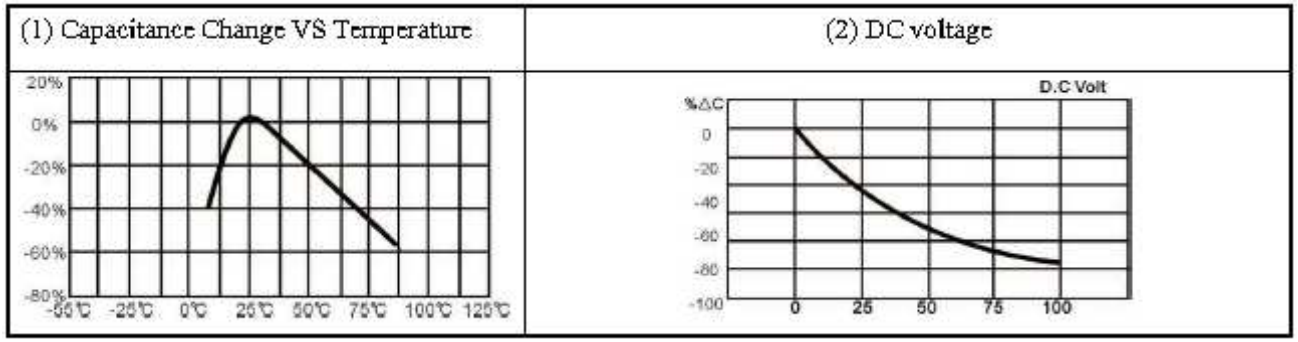
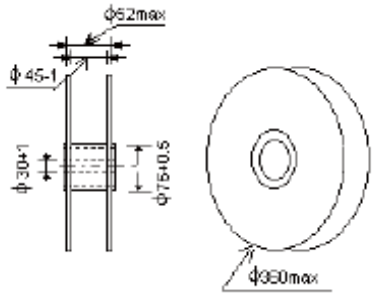
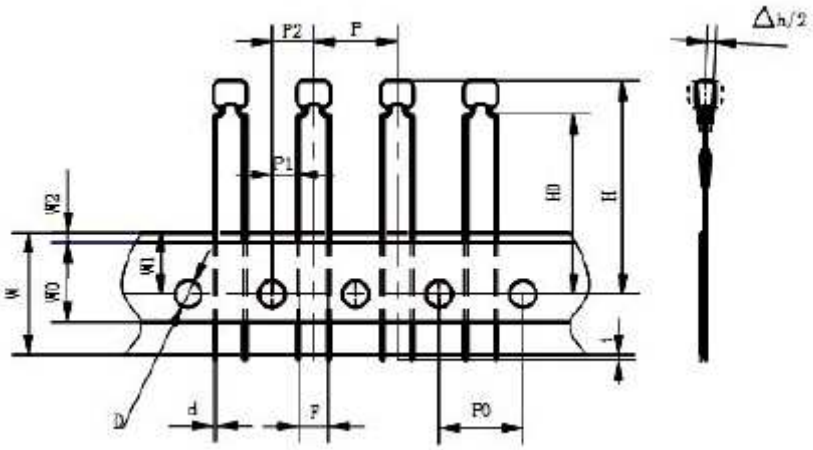
Capacitance Change: VS Temperature Characteristics; Voltage; Frequency Profiles

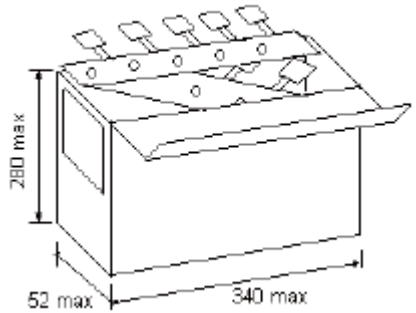
Z5U





Packing Information Tape/Reel Packing





DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.08.2015	**Multilayer Capacitor Radial Style**
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Ordering Informations

Serie		Voltage	Material	Range	Size Code	Tolerance	Lead Style	ROHS	Packing		
I29001	**-**	**500**	**N**	**101**	**A**	**C**	**B**	**R**	**BU**		

500= 50Volt	**N=** NPO	**101=** 100pf	**A=** Size 0603	**C=** ±0,25pf	**B=** Type	**R=** ROHS conform	**BU=** Bulk-Ware	
101= 100Volt	**C=** COG	**100=** 10pf	**B=** Size 0805	**D=** ±0,5pf	**A=** Type	**N=** NON ROHS conform	**TR=** Tape Reel	
201= 200Volt		**1R0=** 1,0pf	**C=** Size 1206	**J=** ±5%	**C=** Type		**TB=** Tape Box (Ammo)	
501= 500Volt		Range from 0,5pf ~ 47nf	**D=** Size 1210					
102= 1000Volt			**E=** Size 1812					
202= 2000Volt			**F=** Size 2220					
			G= Size 3035					

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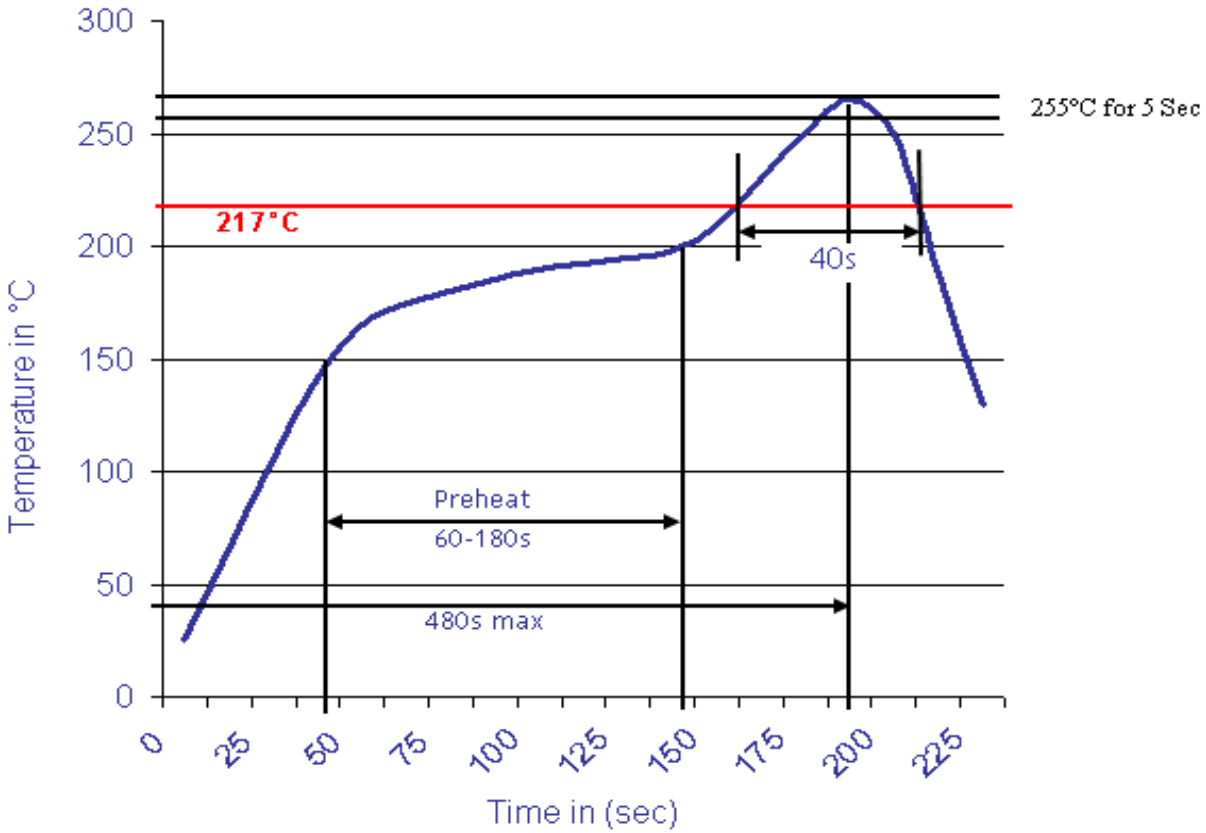
Classification Reflow Profile (JEDEC J-STD-020C)



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