

**Features**

DN series(1000 thermal cycles guaranteed) is designed to meet severe thermal shock requirement.  
3000 cycles type is now available in DR series. Please contact our local office for the details.

**Application**

Circuits subject to wide temperature changes, such as those of vehicles and electronic communications equipment for outdoor use.

**Temperature Compensation Dielectrics/Capacitance Range**

Size (mm)	DN/DR105 (0603)		DN/DR21 (0805)		DN/DR316 (1206)	
Temperature Characteristics	CΔ•SL		CΔ•SL		CΔ•SL	
Rated Voltage (VDC)	50	100	50	100	50	100
Capacitance (pF)						
R50	0.5					
1R0	1.0					
1R5	1.5					
	2.0					
	3.0					
	4.0					
	5.0					
	6.0					
	7.0					
	8.0					
	9.0					
100	10					
120	12					
	15					
	18					
	22					
	27					
	33					
	39					
	47					
	56					
	68					
101	82					
121	120					
	150					
	180					
	220					
	270					
	330					
	390					
	470					
	560					
	680					
	820					
102	1000					
122	1200					
	1500					
	1800					
	2200					
	2700					
	3300					

DR series : 105, 21 size, (L)(W)(T) Tolerance ±0.15mm

**X7R Dielectric/Capacitance Range**

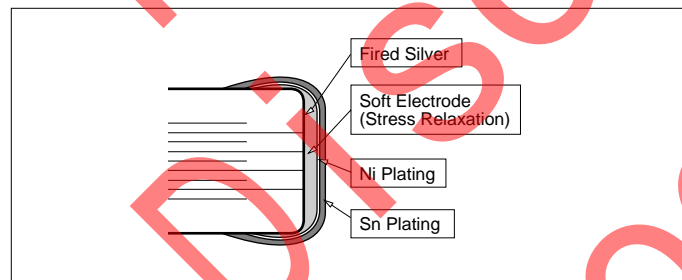
Size (mm)	DN/DR 105 (0603)			DN/DR 21 (0805)			DN/DR 316 (1206)		
Temperature Characteristics	X7R			X7R			X7R		
Rated Voltage (VDC)	25	50	100	25	50	100	25	50	100
Capacitance (pF)									
151	150								
	220								
	330								
	470								
	680								
102	1000								
152	1500								
	2200								
	3300								
	4700								
	6800								
103	10000								
153	15000								
	22000								
	33000								
	47000								
	68000								
104	100000								
154	150000								
	220000								
	330000								
	470000								
	680000								
105	1000000								

DR series : 105, 21 size, (L)(W)(T) Tolerance ±0.15mm

Size	105		21, 316		
Thickness (t) (mm)	A	B	C	D	E
	0.8±0.1	0.85±0.1	1.15±0.1	1.25±0.1	1.6±0.15
Taping(180 dia reel)	4kp(P8)	4kp(P8)	3kp(E8)	3kp(E8)	2.5kp(E8)
Taping(330 dia reel)	10kp(P8)	10kp(P8)	10kp(E8)	10kp(E8)	5kp(E8)

Taping denotes the quantity packaged per reel(kp means 1000pcs).P8 in parenthesis denotes 8mm width paper tape ; E8 denotes 8-mm width plastic tape.

**DR series Termination**



• Maximum Soldering Temperature C ≤ 280°C