

Thick Film
Chip Resistors Array

YC Series

[For 8Pin/4R]

YC12



YC16



YC32

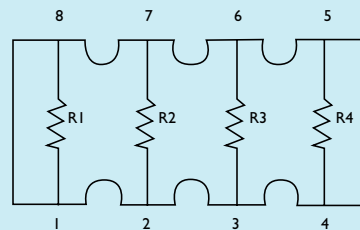


APPLICATIONS

Telecommunication Equipment Lap-Top and Note-Book Computer

SCHEMATICS

YC12
YC16
YC32

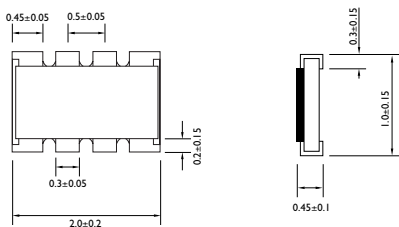


$$R1=R2=R3=R4$$

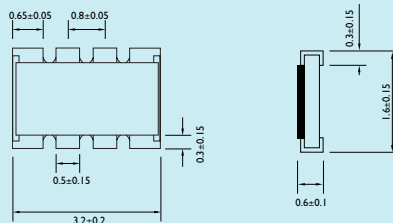
DIMENSIONS

Unit : mm

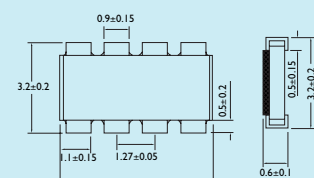
YC12



YC16



YC32



Note :

ELECTRICAL CHARACTERISTICS

STYLE	YC12	YC16	YC32
Power Rating at 70°C	1/16W	1/16W	1/8W
Operating Temp. Range	-55°C to +125°C		
Maximum Working Voltage	50V		200V
Maximum Overload Voltage	100V		400V
Dielectric Withstand Voltage	100V		500V
Number of Resistors	4		
Resistance Range	10Ω ~ 1MΩ		
Temperature Coefficient	±200ppm/°C		
Resistance Tolerance	±5%		

ENVIRONMENTAL CHARACTERISTICS

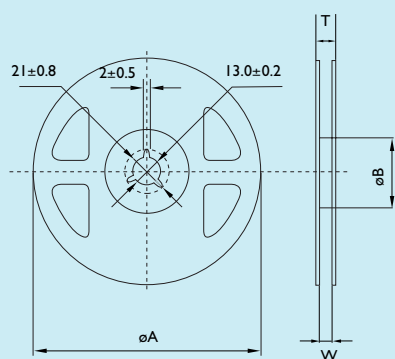
PERFORMANCE TEST	TEST METHOD		APPRAISE
Temperature Coefficient	MIL-STD-202F, Method 304	-55°C to +125°C	by Type
Thermal Shock	MIL-STD-202F, Method 107	5 Cycles, -55°C to +125°C (Step by Step 2min.)	±(1%+0.05Ω)
Low Temperature Operation	MIL-R-55342D, Para.4.7.4	One Hour at -65°C Followed by 45 Minutes RCWV	±(1%+0.05Ω)
Short Time Overload	MIL-R-55342D, Para.4.7.5	2.5 Times RCWV for 5 Seconds	±(2%+0.05Ω)
Insulation Resistance	MIL-STD-202F, Method 302	RCOV for 1 Minute	>10GΩ
Dielectric Withstand Voltage	MIL-STD-202F, Method 301	R.M.S. for 1 Minute	by Type
Resistance to Soldering Heat	MIL-STD-202F, Method 210C	Soldered to Test Board at 260°C for 10 Seconds	±(1%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 106F	42Cycles.Total 1000 Hours	±(2%+0.05Ω)
Life	MIL-STD-202F, Method 108A	1000 Hours at 70°C RCWV Intermittent	±(3%+0.10Ω)
Solderability	MIL-STD-202F, Method 208G	230°C for 5 Seconds	>95% Coverage
Bending Strength	JIS-C-5202, Para.6.1.4	Unit Mounted in Center of 90mm Board Length, Deflected 1mm in Either Direction for 5 Seconds	±(1%+0.05Ω)



Note :

TAPING REEL

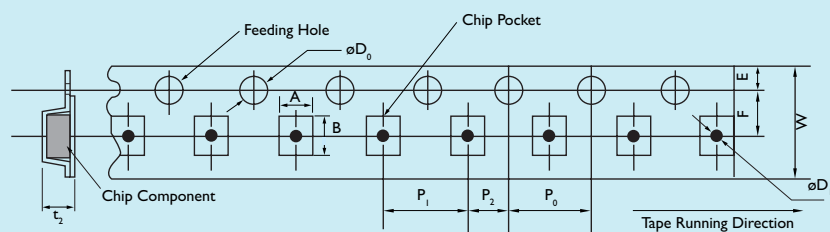
Unit : mm



STYLE	PACKAGING	TAPE WIDE	øA	øB	W	T
YC12/YC15/YC16/TC16 YC17	Paper	8mm	180 ⁺⁰ ₋₃	60 ⁺¹ ₋₀	9.0±0.3	11.4±1
YC24/YC32/YC35	Embossed	12mm	180 ⁺⁰ ₋₃	60 ⁺¹ ₋₀	13.0±0.3	15.4±1

EMBOSSED TAPING

Unit : mm

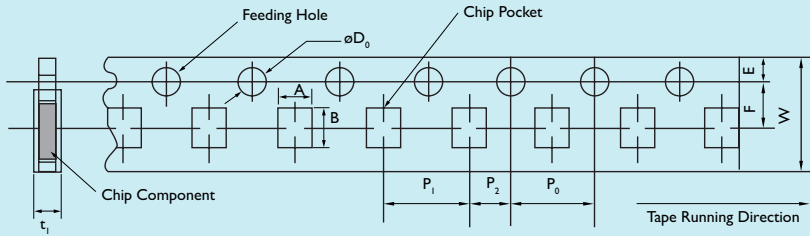


STYLE	NO. OF RES.	A	B	W	E	F	P ₀	P ₁	P ₂	øD ₀	øD ₁	t ₂
YC24	8	1.8±0.2	4.4±0.2	12±0.3	1.75±0.1	5.5±0.05	4±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.25	1.0±0.1
YC32	4	3.5±0.2	5.6±0.2	12±0.3	1.75±0.1	5.5±0.05	4±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.25	1.0±0.1
YC35	8	3.5±0.2	6.7±0.2	12±0.3	1.75±0.1	5.5±0.05	4±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.25	1.0±0.1

Note :

PAPER TAPING

Unit : mm



STYLE	NO. OF RES.	A	B	W	E	F	P ₀	P ₁	P ₂	øD ₀	t ₁
YC12	2	1.2±0.1	1.2±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4.0±0.1	2.0±0.1	2.0±0.05	1.5 ^{+0.1} ₀	0.7±0.1
YC12	4	1.2±0.1	2.2±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4.0±0.1	2.0±0.1	2.0±0.05	1.5 ^{+0.1} ₀	0.7±0.1
YC15/YC17	8	2.0±0.1	3.6±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4.0±0.1	4.0±0.1	2.0±0.05	1.5 ^{+0.1} ₀	0.85±0.1
YC16/TC16	4	2.0±0.1	3.6±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4.0±0.1	4.0±0.1	2.0±0.05	1.5 ^{+0.1} ₀	0.85±0.1

PACKING METHODS

Unit : pcs

STYLE	PACKING	PAPER TAPING REEL (R) 7" (178mm)		EMBOSSSED TAPING REEL (K) 7" (178mm)	
YC12		10,000		-	
YC16/TC16		5,000		-	
YC15/YC17		5,000		-	
YC24/YC32/YC35		-		4,000	

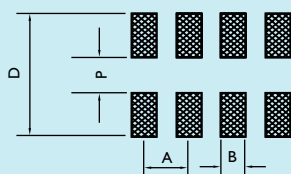


Note :

RECOMMENDED LAND PATTERN DESIGN

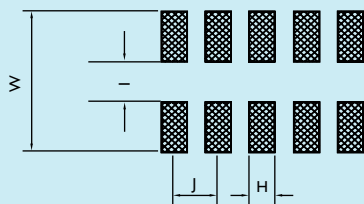
Unit : mm

For Popular Pattern



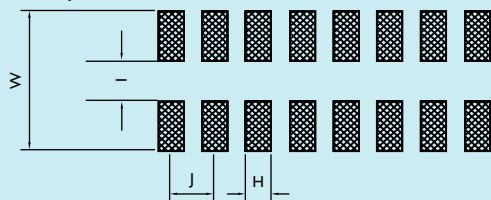
STYLE	A	B	D	P
YC12	0.5 ± 0.05	0.3 ± 0.05	2.2 ± 0.2	0.5 ± 0.1
YC16/TC16	0.80 ± 0.05	0.45 ± 0.05	2.8 ± 0.2	0.8 ± 0.1
YC32	1.27 ± 0.05	0.6 ± 0.05	4.5 ± 0.2	2.0 ± 0.1

For Popular Pattern



STYLE	J	H	W	I
YC15/YC17	0.64 ± 0.05	0.3 ± 0.05	2.8 ± 0.2	0.8 ± 0.1
YC35	1.27 ± 0.05	0.6 ± 0.05	4.5 ± 0.2	2.0 ± 0.1

For Popular Pattern



STYLE	J	H	W	I
YC24	0.5 ± 0.05	0.3 ± 0.05	2.8 ± 0.2	0.9 ± 0.1

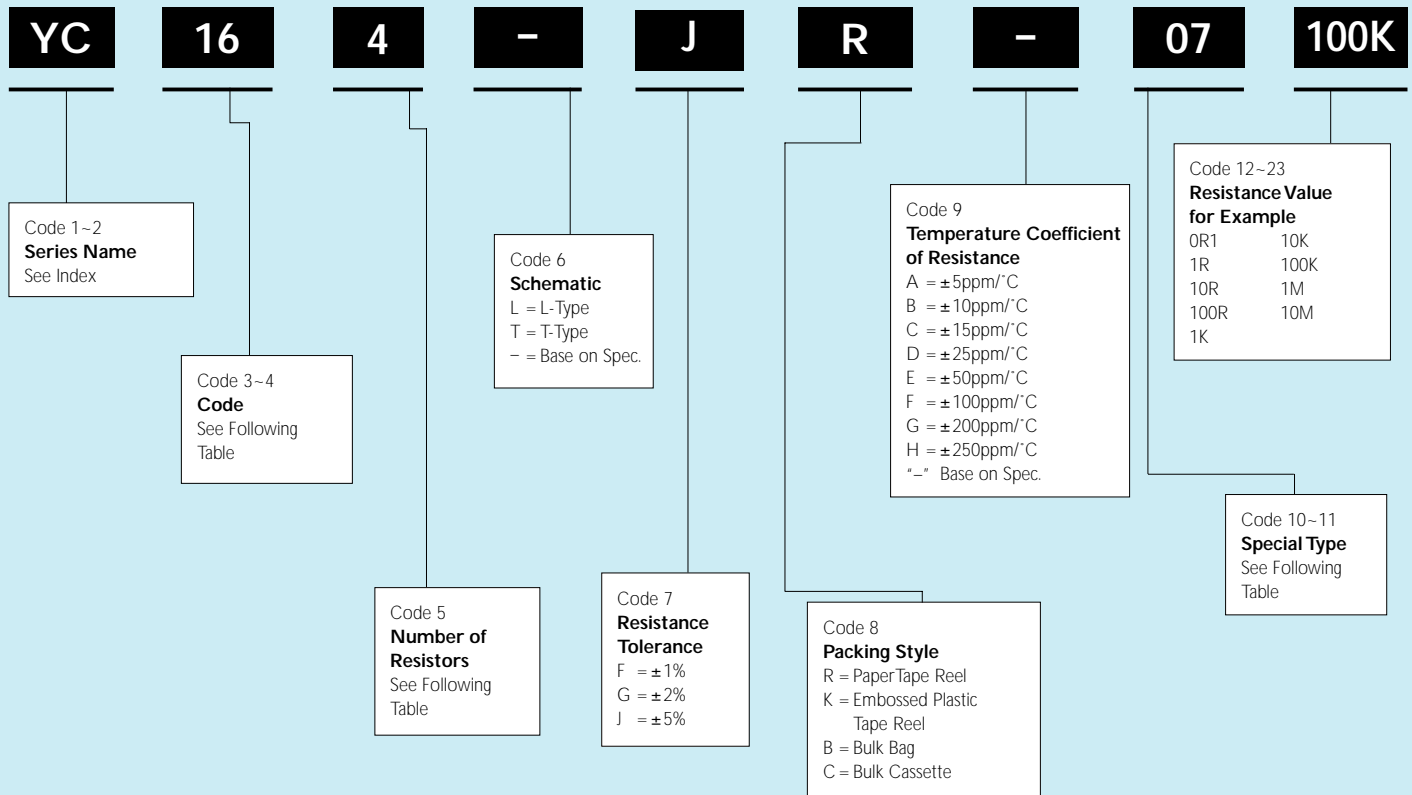


Note :

EXPLANATIONS OF ORDERING CODE

For Thick Film Chip Resistor Networks (YC,TC Series)

Explanations of Ordering Code



CODE 3~4

POWER RATING

12 1/16W

15 1/32W

16 1/16W

17 1/32W

24 1/16W

32 1/8W

35 1/16W

CODE 5

NUMBER OF RESISTORS

2=2 Resistors

4=4 Resistors

8=8 Resistors

9=9 Resistors

A=10 Resistors

C=12 Resistors

CODE 10~11

SPECIAL TYPE

07=7 Inch Dia. Reel

10=10 Inch Dia. Reel

13=13 Inch Dia. Reel