

規格

SPECIFICATIONS

■ 使用温度範圍

Operating temperature: NPO -55°C to + 125°C
 X7R -55°C to + 125°C
 Z5U +10°C to +85°C

■ 温度系数

Temperature coefficient, ΔC max: NPO $0 \pm 30\text{PPM}/^\circ\text{C}$
 X7R $\pm 15\%$
 Z5U $+ 22\% \sim -56\%$

■ 額定工作電壓

Rated working voltage: 50VDC, 100VDC

■ 靜電容量範圍

Capacitance range: NPO 10 ~ 3300pF
 X7R 420 ~ 27000pF
 Z5U 100 ~ 100000pF

■ 散逸因素

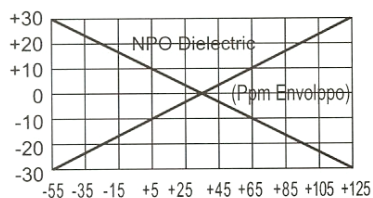
Dissipation factor ($\tan \delta$): NPO 25°C 0.1% max 0.02% typical
 X7R 25°C 2.5% max 1.6% typical
 Z5U 25°C 2.5% max 1.8% typical

■ 絕緣電阻

Insulation resistance(I.R): at 25°C, 10000M Ω or 1000M $\Omega \cdot \mu\text{f}$ whichever is Less.

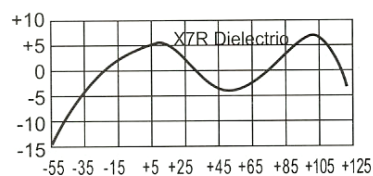
TYPICAL CHARACTERISTICS

CAPACITANCE CHANGE(ΔC)
VS TEMPERATURE

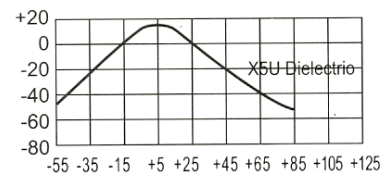


TEMPERATURE (°C)

CAPACITANCE CHANGE(ΔC)
VS TEMPERATURE

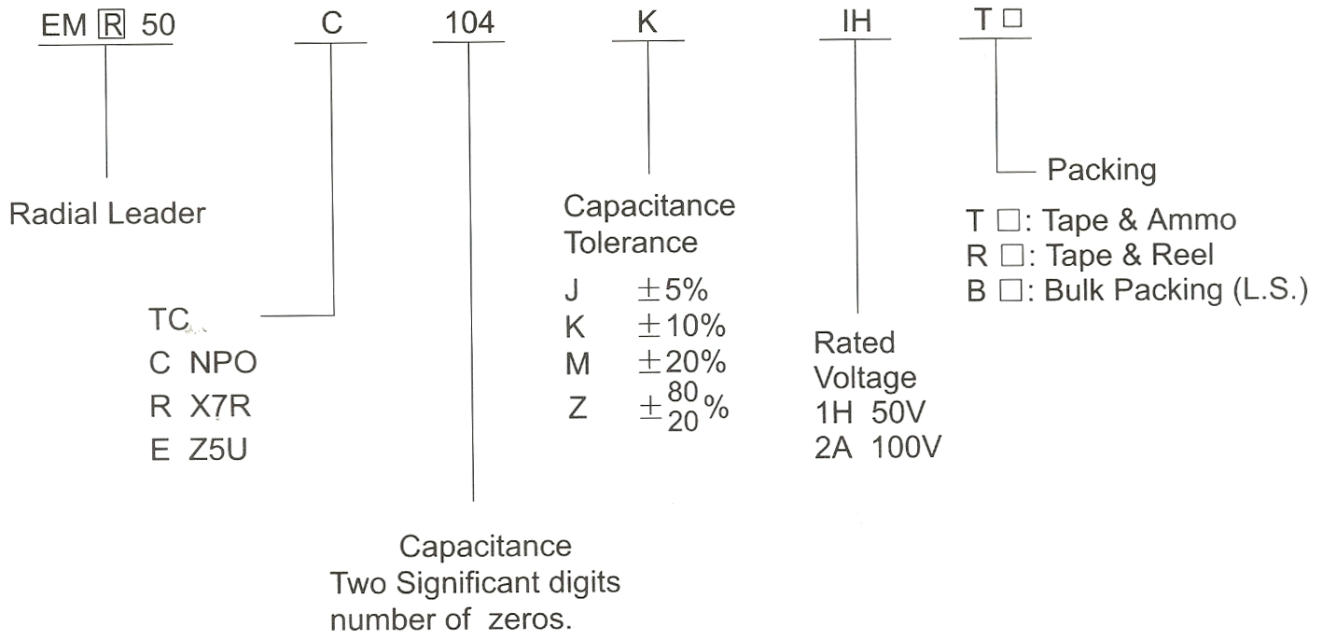


TEMPERATURE (°C)



TEMPERATURE (°C)

PART NUMBER CODE



Example

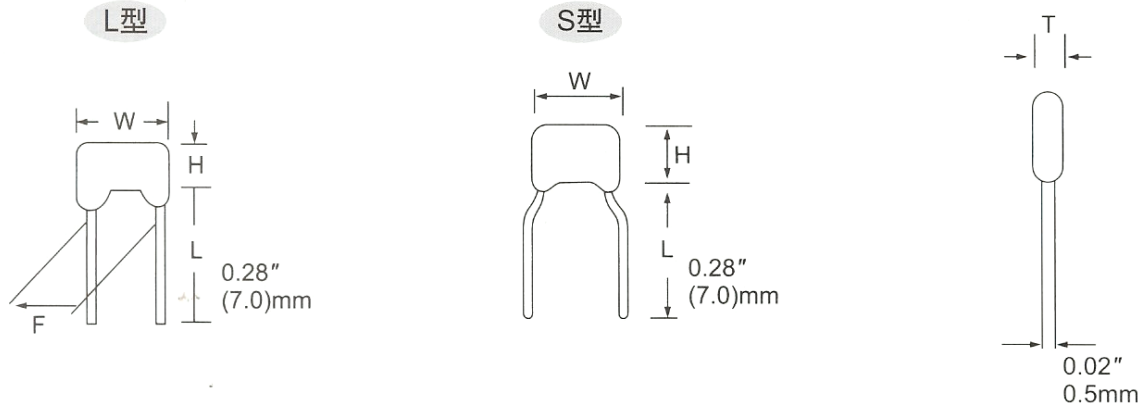
101	100pF
102	1000pF
472	4700pF
104	100000pF

RADIAL TYPE

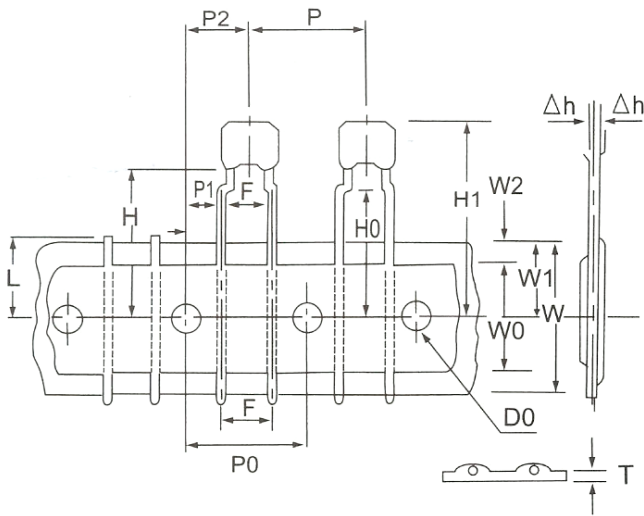
TEMP. CHAR/CAP VALUE RATED VOLTAGE

Type	Rated Volt (VDC)	Temp Char	Capacitance		Dimensions (mm)			
			Range (pF)	Tol	W(max)	H(max)	T(max)	F(±1.0)
EMR50C	50	NPO (C)	100 • 3300	J.K	5.08	5.08	3.18	2.54
EMR50C								5.08
EMR50C	100	COG						2.54
EMR50C								5.08
EMR50X	50	X7R (X)	470 • 2700	K.M	5.08	5.08	3.18	2.54
EMR50X								5.08
EMR50X	100							2.54
EMR50X								5.08
EMR50E	50	Z5U (E)	1000 • 100000	M.Z	5.08	5.08	3.18	2.54
EMR50E								5.08

LEAD CONFIGURATION AND DIMENSIONS



PACKING QUANTITY AND DIMENSIONS



Symbol	Dimensions(mm)
P	12.7 ± 1.0
P0	12.7 ± 0.3
P1	3.85 ± 0.7
P2	8.35 ± 1.3
F	5.0 + 0.8/ - 0.2 or 2.5 + 0.8/ - 0.2
Δh	2.0max
W	18.0 - 1.01 - 0.5
W0	11.0mm
W1	9.0 ± 0.5
W2	3.0max
H	18.0 + 2.0/ -OH + 12.5mm H1
H0	16.0 ± 0.5 or 1.8 ± 0.5
H1	32.25max
D0	4.0 ± 0.3
T	0.7 ± 0.2

Series code	TAPING		BULK
	QUANTITY PER REEL	QUANTITY PER BOX	QUANTITY PER BAG
EMR50(L.S)	3000 PCS	2000 PCS	1000 PCS