

EMI Suppression Capacitors

CMPR

■ Features

- Non-inductive wound construction.
- Single resistor included.
- Withstanding overvoltage stressing.
- Excellent flame retardant.
- Plastic case(UL94 V-0), Epoxy resin sealing
- RoHS directive compliant

■ Applications

- For X2 – electromagnetic Interference suppression
- Spark quenching
- Noise suppression

■ Specifications

Reference Standard	IEC 60384-14
Climatic Category Passive Flammability Class	40 / 85 / 56 / B
Class	X2
Rated Temperature	105℃ +85℃~+105℃ decreasing factor 1.0% / °C for V _R (dc)
Operation Temperature Range	-40℃~+85℃
Rated Voltage	250Vc / 300Vac[CQC]
Capacitance Range	0.0100μF~1.0μF
Capacitance Tolerance	K : ±10% / M : ±20% ※Standard : K : ±10%, Other Tolerance Grade : available on request.
Resistant Range	10~1000Ω
Resistant Tolerance	K : ±10% / M : ±20% ※Standard : M : 20% , Other Tolerance Grade : available on request.
Voltage Proof	2200(Vdc) - 2~3 Sec
Insulation Resistance	≥30,000MΩ C _R ≤0.33μF 100Vdc 60sec 20℃ ≥10,000Ω·F C _R >0.33μF 100Vdc 60sec 20℃

■ Part Number System

CMPR	AC300V	103K	Ω	15	R	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name) - CMPR

Part-2 : Rated Voltage(250/300Vac)

Part-3 : Rated Capacitance Value and Tolerance (0.010μF~1.0μF / 103~105 K : ±10% / M : ±20%)

Part-4 : Rated Resistant Value and Tolerance(10~1000Ω / K : ±10% / M : ±20%)

Part-5 : Lead Spacing(15mm / 17.5mm / 22.5mm / 27.5mm)

Part-6 : Forming-Type and Packing Code(Specifically : R : Rigid Lead / F : Flexible Lead)

Part-7 : Size Number(5~6 : Min-Type / 7 : Standard-Type / 8~15 : Large-Type)

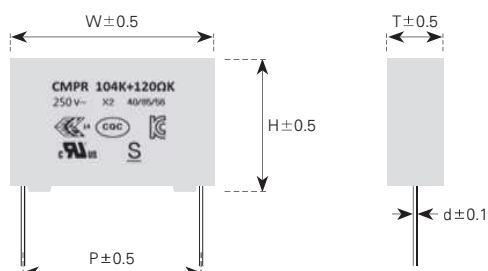
Part-8 : Internal Use

■ Applicable Standard

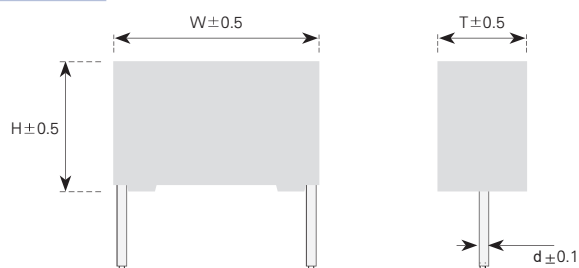
SAFTY	FILE NO
UL60384-14 / CAN/CSA-E60384-14 Fixed Capacitor - X2	E327138
ENEC/CB(VDE)(IEC60384-14)	40026078
KC(KTL)	SU03030-7001A~7004A SU03030-13001,13002 / SU03064-13001~13006
CQC	CQC13001095123 CQC13001095638 / CQC13001098793~4

■ Dimensions

Rigid Lead



Flexible Lead



250Vac[※] Rigid Lead
(Resistor Rated Power : 0.5Watt 0.6℃ 1.0Watt 0.8℃)

Cap. (μF)	R	Dimensions(mm)			Pitch - d	PART NUMBER
		W (±0.5)	H (±0.5)	T (±0.5)		
0.01	10~1000	18	15.5	6	15-0.6	CMPRAC250V103_Ω15R5_
0.012	10~1000	18	15.5	6	15-0.6	CMPRAC250V123_Ω15R5_
0.015	10~1000	18	15.5	6	15-0.6	CMPRAC250V153_Ω15R5_
0.018	10~1000	18	15.5	6	15-0.6	CMPRAC250V183_Ω15R5_
0.022	10~1000	18	15.5	6	15-0.6	CMPRAC250V223_Ω15R5_
0.027	10~1000	18	15.5	6	15-0.6	CMPRAC250V273_Ω15R5_
0.033	10~680	18	15.5	6	15-0.6	CMPRAC250V333_Ω15R5_
0.039	10~680	18	15.5	6	15-0.6	CMPRAC250V393_Ω15R5_
0.047	10~470	18	15.5	6	15-0.6	CMPRAC250V473_Ω15R5_
0.056	10~470	18	15.5	6	15-0.6	CMPRAC250V563_Ω15R5_
0.068	10~220	18	18	9	15-0.6	CMPRAC250V683_Ω15R5_
0.082	10~220	18	18	9	15-0.6	CMPRAC250V823_Ω15R5_
0.1	10~220	18	18	9	15-0.6	CMPRAC250V104_Ω15R5_
0.068	10~220	22	18	8	17.5-0.6	CMPRAC250V683_Ω17.5R5_
0.082	10~220	22	18	8	17.5-0.6	CMPRAC250V823_Ω17.5R5_
0.1	10~220	22	18	8	17.5-0.6	CMPRAC250V104_Ω17.5R5_
0.12	10~220	22	18	8	17.5-0.6	CMPRAC250V124_Ω17.5R5_
0.15	10~120	22	18	8	17.5-0.6	CMPRAC250V154_Ω17.5R5_
0.18	10~120	22	18	10	17.5-0.6	CMPRAC250V184_Ω17.5R5_
0.22	10~120	22	18	10	17.5-0.6	CMPRAC250V224_Ω17.5R5_
0.12	10~220	26	18.5	8.5	22.5-0.8	CMPRAC250V124_Ω22.5R5_
0.15	10~120	26	18.5	8.5	22.5-0.8	CMPRAC250V154_Ω22.5R5_
0.18	10~120	26	18.5	8.5	22.5-0.8	CMPRAC250V184_Ω22.5R5_
0.22	10~120	26	18.5	8.5	22.5-0.8	CMPRAC250V224_Ω22.5R5_
0.27	10~100	26	22	10	22.5-0.8	CMPRAC250V274_Ω22.5R5_
0.33	10~68	26	22	10	22.5-0.8	CMPRAC250V334_Ω22.5R5_
0.39	10~68	26	22	12	22.5-0.8	CMPRAC250V394_Ω22.5R5_
0.47	10~47	26	22	12	22.5-0.8	CMPRAC250V474_Ω22.5R5_
0.27	10~100	32	22	8.5	27.5-0.8	CMPRAC250V274_Ω27.5R5_
0.33	10~68	32	22	8.5	27.5-0.8	CMPRAC250V334_Ω27.5R5_
0.39	10~68	32	22	8.5	27.5-0.8	CMPRAC250V394_Ω27.5R5_
0.47	10~47	32	22	10	27.5-0.8	CMPRAC250V474_Ω27.5R5_
0.56	10~22	32	22	10	27.5-0.8	CMPRAC250V564_Ω27.5R5_
0.68	10~22	32	22	13	27.5-0.8	CMPRAC250V684_Ω27.5R5_
0.82	10~22	32	22	13	27.5-0.8	CMPRAC250V824_Ω27.5R5_
1	10~22	32	26	18	27.5-0.8	CMPRAC250V105_Ω27.5R5_

EMI Suppression Capacitors

250Vac* Flexible Wire (UL 1015 105°C 600V 20AWG 0.5mm²)

Cap. (μF)	R	Dimensions(mm)			Pitch - d	PART NUMBER
		W (±0.5)	H (±0.5)	T (±0.5)		
0.01	10~1000	18	20	6	15-0.6	CMPRAC250V103_Ω15F5_
0.012	10~1000	18	20	6	15-0.6	CMPRAC250V123_Ω15F5_
0.015	10~1000	18	20	6	15-0.6	CMPRAC250V153_Ω15F5_
0.018	10~1000	18	20	6	15-0.6	CMPRAC250V183_Ω15F5_
0.022	10~1000	18	20	6	15-0.6	CMPRAC250V223_Ω15F5_
0.027	10~1000	18	20	6	15-0.6	CMPRAC250V273_Ω15F5_
0.033	10~680	18	20	6	15-0.6	CMPRAC250V333_Ω15F5_
0.039	10~680	18	20	6	15-0.6	CMPRAC250V393_Ω15F5_
0.047	10~470	18	20	6	15-0.6	CMPRAC250V473_Ω15F5_
0.056	10~470	18	20	6	15-0.6	CMPRAC250V563_Ω15F5_
0.068	10~220	18	25	9	15-0.6	CMPRAC250V683_Ω15F5_
0.082	10~220	18	25	9	15-0.6	CMPRAC250V823_Ω15F5_
0.1	10~220	18	25	9	15-0.6	CMPRAC250V104_Ω15F5_
0.068	10~220	22	25	8	17.5-0.6	CMPRAC250V683_Ω17.5F5_
0.082	10~220	22	25	8	17.5-0.6	CMPRAC250V823_Ω17.5F5_
0.1	10~220	22	25	8	17.5-0.6	CMPRAC250V104_Ω17.5F5_
0.12	10~220	22	25	8	17.5-0.6	CMPRAC250V124_Ω17.5F5_
0.15	10~120	22	25	8	17.5-0.6	CMPRAC250V154_Ω17.5F5_
0.18	10~120	22	25	10	17.5-0.6	CMPRAC250V184_Ω17.5F5_
0.22	10~120	22	25	10	17.5-0.6	CMPRAC250V224_Ω17.5F5_
0.12	10~220	26	25	8.5	22.5-0.8	CMPRAC250V124_Ω22.5F5_
0.15	10~120	26	25	8.5	22.5-0.8	CMPRAC250V154_Ω22.5F5_
0.18	10~120	26	25	8.5	22.5-0.8	CMPRAC250V184_Ω22.5F5_
0.22	10~120	26	25	8.5	22.5-0.8	CMPRAC250V224_Ω22.5F5_
0.27	10~100	26	30	10	22.5-0.8	CMPRAC250V274_Ω22.5F5_
0.33	10~68	26	30	10	22.5-0.8	CMPRAC250V334_Ω22.5F5_
0.39	10~68	26	30	12	22.5-0.8	CMPRAC250V394_Ω22.5F5_
0.47	10~47	26	30	12	22.5-0.8	CMPRAC250V474_Ω22.5F5_
0.27	10~100	32	30	8.5	27.5-0.8	CMPRAC250V274_Ω27.5F5_
0.33	10~68	32	30	8.5	27.5-0.8	CMPRAC250V334_Ω27.5F5_
0.39	10~68	32	30	8.5	27.5-0.8	CMPRAC250V394_Ω27.5F5_
0.47	10~47	32	30	10	27.5-0.8	CMPRAC250V474_Ω27.5F5_
0.56	10~22	32	30	10	27.5-0.8	CMPRAC250V564_Ω27.5F5_
0.68	10~22	32	30	13	27.5-0.8	CMPRAC250V684_Ω27.5F5_
0.82	10~22	32	30	13	27.5-0.8	CMPRAC250V824_Ω27.5F5_
1	10~22	32	33	18	27.5-0.8	CMPRAC250V105_Ω27.5F5_

300Vac* Rigid Lead (Resistor Rated Power : 0.5Watt 0.6Ω 1.0Watt 0.8Ω)

Cap. (μF)	R	Dimensions(mm)			Pitch - d	PART NUMBER
		W (±0.5)	H (±0.5)	T (±0.5)		
0.01	10~1000	18	15.5	6	15-0.6	CMPRAC300V103_Ω15R5_
0.012	10~1000	18	15.5	6	15-0.6	CMPRAC300V123_Ω15R5_
0.015	10~1000	18	15.5	6	15-0.6	CMPRAC300V153_Ω15R5_
0.018	10~1000	18	15.5	6	15-0.6	CMPRAC300V183_Ω15R5_
0.022	10~1000	18	15.5	6	15-0.6	CMPRAC300V223_Ω15R5_
0.027	10~1000	18	15.5	6	15-0.6	CMPRAC300V273_Ω15R5_
0.033	10~680	18	15.5	6	15-0.6	CMPRAC300V333_Ω15R5_
0.039	10~680	18	15.5	6	15-0.6	CMPRAC300V393_Ω15R5_
0.047	10~470	18	15.5	6	15-0.6	CMPRAC300V473_Ω15R5_
0.056	10~470	18	15.5	6	15-0.6	CMPRAC300V563_Ω15R5_
0.068	10~220	18	18	9	15-0.6	CMPRAC300V683_Ω15R5_
0.082	10~220	18	18	9	15-0.6	CMPRAC300V823_Ω15R5_
0.1	10~220	18	18	9	15-0.6	CMPRAC300V104_Ω15R5_
0.068	10~220	22	18	8	17.5-0.6	CMPRAC300V683_Ω17.5R5_
0.082	10~220	22	18	8	17.5-0.6	CMPRAC300V823_Ω17.5R5_
0.1	10~220	22	18	8	17.5-0.6	CMPRAC300V104_Ω17.5R5_
0.12	10~220	22	18	8	17.5-0.6	CMPRAC300V124_Ω17.5R5_
0.15	10~120	22	18	8	17.5-0.6	CMPRAC300V154_Ω17.5R5_
0.18	10~120	22	18	10	17.5-0.6	CMPRAC300V184_Ω17.5R5_
0.22	10~120	22	18	10	17.5-0.6	CMPRAC300V224_Ω17.5R5_
0.12	10~220	26	18.5	8.5	22.5-0.8	CMPRAC300V124_Ω22.5R5_
0.15	10~120	26	18.5	8.5	22.5-0.8	CMPRAC300V154_Ω22.5R5_
0.18	10~120	26	18.5	8.5	22.5-0.8	CMPRAC300V184_Ω22.5R5_
0.22	10~120	26	18.5	8.5	22.5-0.8	CMPRAC300V224_Ω22.5R5_
0.27	10~100	26	22	10	22.5-0.8	CMPRAC300V274_Ω22.5R5_
0.33	10~68	26	22	10	22.5-0.8	CMPRAC300V334_Ω22.5R5_
0.39	10~68	26	22	12	22.5-0.8	CMPRAC300V394_Ω22.5R5_
0.47	10~47	26	22	12	22.5-0.8	CMPRAC300V474_Ω22.5R5_
0.27	10~100	32	22	8.5	27.5-0.8	CMPRAC300V274_Ω27.5R5_
0.33	10~68	32	22	8.5	27.5-0.8	CMPRAC300V334_Ω27.5R5_
0.39	10~68	32	22	8.5	27.5-0.8	CMPRAC300V394_Ω27.5R5_
0.47	10~47	32	22	10	27.5-0.8	CMPRAC300V474_Ω27.5R5_
0.56	10~22	32	22	10	27.5-0.8	CMPRAC300V564_Ω27.5R5_
0.68	10~22	32	22	13	27.5-0.8	CMPRAC300V684_Ω27.5R5_
0.82	10~22	32	22	13	27.5-0.8	CMPRAC300V824_Ω27.5R5_
1	10~22	32	26	18	27.5-0.8	CMPRAC300V105_Ω27.5R5_

300Vac[※] Flexible Wire (UL 1015 105℃ 600V 20AWG 0.5mm²)

Cap. (μF)	R	Dimensions(mm)			Pitch ~ d	PART NUMBER
		W (±0.5)	H (±0.5)	T (±0.5)		
0.01	10~1000	18	20	6	15-0.6	CMPRAC300V103_ ____Ω15F5____
0.012	10~1000	18	20	6	15-0.6	CMPRAC300V123_ ____Ω15F5____
0.015	10~1000	18	20	6	15-0.6	CMPRAC300V153_ ____Ω15F5____
0.018	10~1000	18	20	6	15-0.6	CMPRAC300V183_ ____Ω15F5____
0.022	10~1000	18	20	6	15-0.6	CMPRAC300V223_ ____Ω15F5____
0.027	10~1000	18	20	6	15-0.6	CMPRAC300V273_ ____Ω15F5____
0.033	10~680	18	20	6	15-0.6	CMPRAC300V333_ ____Ω15F5____
0.039	10~680	18	20	6	15-0.6	CMPRAC300V393_ ____Ω15F5____
0.047	10~470	18	20	6	15-0.6	CMPRAC300V473_ ____Ω15F5____
0.056	10~470	18	20	6	15-0.6	CMPRAC300V563_ ____Ω15F5____
0.068	10~220	18	25	9	15-0.6	CMPRAC300V683_ ____Ω15F5____
0.082	10~220	18	25	9	15-0.6	CMPRAC300V823_ ____Ω15F5____
0.1	10~220	18	25	9	15-0.6	CMPRAC300V104_ ____Ω15F5____
0.068	10~220	22	25	8	17.5-0.6	CMPRAC300V683_ ____Ω17.5F5____
0.082	10~220	22	25	8	17.5-0.6	CMPRAC300V823_ ____Ω17.5F5____
0.1	10~220	22	25	8	17.5-0.6	CMPRAC300V104_ ____Ω17.5F5____
0.12	10~220	22	25	8	17.5-0.6	CMPRAC300V124_ ____Ω17.5F5____
0.15	10~120	22	25	8	17.5-0.6	CMPRAC300V154_ ____Ω17.5F5____
0.18	10~120	22	25	10	17.5-0.6	CMPRAC300V184_ ____Ω17.5F5____
0.22	10~120	22	25	10	17.5-0.6	CMPRAC300V224_ ____Ω17.5F5____
0.12	10~220	26	25	8.5	22.5-0.8	CMPRAC300V124_ ____Ω22.5F5____
0.15	10~120	26	25	8.5	22.5-0.8	CMPRAC300V154_ ____Ω22.5F5____
0.18	10~120	26	25	8.5	22.5-0.8	CMPRAC300V184_ ____Ω22.5F5____
0.22	10~120	26	25	8.5	22.5-0.8	CMPRAC300V224_ ____Ω22.5F5____
0.27	10~100	26	30	10	22.5-0.8	CMPRAC300V274_ ____Ω22.5F5____
0.33	10~68	26	30	10	22.5-0.8	CMPRAC300V334_ ____Ω22.5F5____
0.39	10~68	26	30	12	22.5-0.8	CMPRAC300V394_ ____Ω22.5F5____
0.47	10~47	26	30	12	22.5-0.8	CMPRAC300V474_ ____Ω22.5F5____
0.27	10~100	32	30	8.5	27.5-0.8	CMPRAC300V274_ ____Ω27.5F5____
0.33	10~68	32	30	8.5	27.5-0.8	CMPRAC300V334_ ____Ω27.5F5____
0.39	10~68	32	30	8.5	27.5-0.8	CMPRAC300V394_ ____Ω27.5F5____
0.47	10~47	32	30	10	27.5-0.8	CMPRAC300V474_ ____Ω27.5F5____
0.56	10~22	32	30	10	27.5-0.8	CMPRAC300V564_ ____Ω27.5F5____
0.68	10~22	32	30	13	27.5-0.8	CMPRAC300V684_ ____Ω27.5F5____
0.82	10~22	32	30	13	27.5-0.8	CMPRAC300V824_ ____Ω27.5F5____
1	10~22	32	33	18	27.5-0.8	CMPRAC300V105_ ____Ω27.5F5____

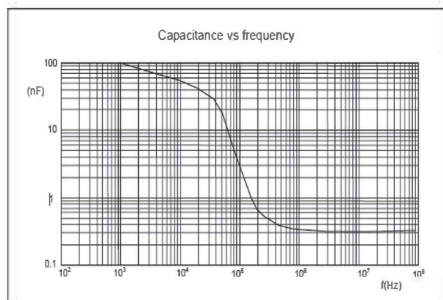
※CQC Approved Only

EMI Suppression Capacitors

■ Electrical Characteristics (Typical Data)

Characteristics

- All capacitance values are specified at 1 kHz. (Vs. Temperature)



- Capacitance at 25°C (Vs. Frequency), ex) 100nF+120Ω

