



Illustrative Image

Construction

Metallized polypropylene film

Applications

For general sine wave applications

Mainly as motor run capacitor

Features

Self-healing properties

Low dissipation factor

Mounting Part

Threaded stud at bottom of can (M8)

Specifications

Capacitance Tolerance	±5% (J)
Rated Voltage	450VAC
Rated Frequency	50~60Hz
Dissipation Factor	≤0.0020(100Hz)
VT-T (Lead and Lead)	900VAC/5S
Climatic Category	40/85/21
Fire-Retardant	UL94-V1
Case	PP green plastic
Leads	250#

UL approved, E504019

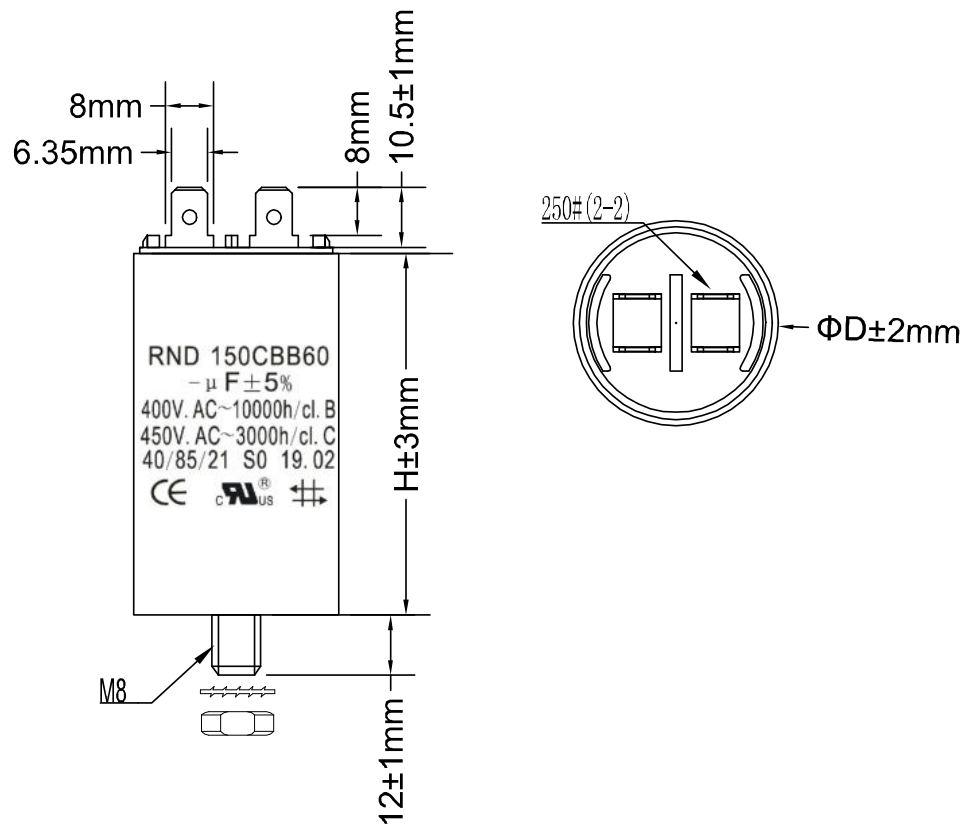
Part Number Code (example)

RND 150CBB60 0.47UF 450V
A B C

A: Type of Product Motor Capacitor
B: Capacitance 0.47 μ F
C: Rated Voltage AC 450 V

Motor Capacitors 50-60Hz

Dimensional Drawing



Ordering Codes

Cap (μF)		0.47	1	1.5	2	2.5	3	3.5	4	4.5	5	6	6.3
Dimension (mm)	D	30	30	30	30	30	30	30	30	30	30	30	30
	H	55	55	55	55	55	55	55	55	55	60	60	60

Cap (μF)		7.5	8	10	12	14	15	16	18	20	25	30	35
Dimension (mm)	D	34	34	34	34	34	34	34	34	42	40	42	45
	H	60	60	60	70	70	70	70	70	72.5	93	92.5	92.5

Cap (μF)		40	50	60	70	80	100
Dimension (mm)	D	50	50	50	55	60	65
	H	92.5	108	130	120	120	120

Product Range:

Part Number	Capacitance	Diameter (D)	Length (L)
RND 150CBB600.47UF450V	0.47 μ F	30 mm	55 mm
RND 150CBB601.5UF450V	1.5 μ F	30 mm	55 mm
RND 150CBB60100UF450V	100 μ F	50 mm	120 mm
RND 150CBB6010UF450V	10 μ F	34 mm	60 mm
RND 150CBB6012UF450V	12 μ F	34 mm	70 mm
RND 150CBB6014UF450V	14 μ F	36 mm	70 mm
RND 150CBB6015UF450V	15 μ F	40 mm	70 mm
RND 150CBB6016UF450V	16 μ F	40 mm	70 mm
RND 150CBB6018UF450V	18 μ F	40 mm	70 mm
RND 150CBB601UF450V	1 μ F	30 mm	55 mm
RND 150CBB602.5UF450V	2.5 μ F	30 mm	55 mm
RND 150CBB6020UF450V	20 μ F	42 mm	73 mm
RND 150CBB6025UF450V	25 μ F	40 mm	93 mm
RND 150CBB602UF450V	2 μ F	30 mm	55 mm
RND 150CBB603.5UF450V	3.5 μ F	30 mm	55 mm
RND 150CBB6030UF450V	30 μ F	42 mm	93 mm
RND 150CBB6035UF450V	35 μ F	45 mm	93 mm
RND 150CBB603UF450V	3 μ F	30 mm	55 mm
RND 150CBB604.5UF450V	4.5 μ F	30 mm	55 mm
RND 150CBB6040UF450V	40 μ F	50 mm	93 mm
RND 150CBB604UF450V	4 μ F	30 mm	55 mm
RND 150CBB6050UF450V	50 μ F	50 mm	108 mm
RND 150CBB605UF450V	5 μ F	30 mm	60 mm
RND 150CBB606.3UF450V	6.3 μ F	30 mm	60 mm
RND 150CBB6060UF450V	60 μ F	50 mm	120 mm
RND 150CBB606UF450V	6 μ F	30 mm	60 mm
RND 150CBB607.5UF450V	7.5 μ F	34 mm	60 mm
RND 150CBB6070UF450V	70 μ F	50 mm	120 mm
RND 150CBB6080UF450V	80 μ F	50 mm	120 mm
RND 150CBB608UF450V	8 μ F	34 mm	60 mm

Test Information

NO	Item	Test results	Test methods
3.1	Weldability test	More than 95% is covered with tin on the wire	Solder temperature: $235\pm 5^{\circ}\text{C}$ Tin content $\geq 40\%$ Test temperature: $2\pm 0.5\text{S}$ 99.96% SN+0.04%AG (SN60%/SB40%)
3.2	Cold and heat test Temperature change test	Outward: Without damage $\Delta C/C \leq 1\%$ $\text{tg } \delta : C \leq 1 \mu\text{F}, \leq 0.0015$ $C > 1 \mu\text{F}, \leq 0.0030$	Test temperature: $-40\pm 2^{\circ}\text{C}$ Test time: 2 hours Temperature cycle test Upper temperature and lower temperature with 5 cirlations and each 30 mins
3.3	Dry heat test	Outward: Without damage $\Delta C/C \leq 1\%$ $\text{tg } \delta : C \leq 1 \mu\text{F}, \leq 0.0015$ $C > 1 \mu\text{F}, \leq 0.0030$	Test temperature: $70\pm 2^{\circ}\text{C}$ Test time: 16 hours
3.4	Damp resistance	Outward: Without damage $\Delta C/C \leq 1\%$ $\text{tg } \delta : C \leq 1 \mu\text{F}, \leq 0.0015$ $C > 1 \mu\text{F}, \leq 0.0030$	Test temperature: $40\pm 2^{\circ}\text{C}$ Relative humidity: 90-95% Test time: 500 hours
3.5	Life test	Outward: Without damage $\Delta C/C \leq \pm 3\%$ $\text{tg } \delta \leq 0.0020$ (100Hz)	Test temperature: $85\pm 3^{\circ}\text{C}$ Test time: 300 hours Test voltage: 1.35UnAC (607.5VAC)
3.6	Storage and use conditions: A.Storage temperature and humidity: $20\pm 5^{\circ}\text{C} \leq 70\% \text{ RH}$ B.Working life: 3000 hours		