

電気用部品材料登録制度 (CMJ登録リスト)

電子機器用固定コンデンサー登録リスト

Fixed Capacitors for electromagnetic interference suppression and connection to the supply mains

登録項目 Registration item	登録内容 Registration detail
登録機関 Certification body	JET
申込者 Applicant	XIAMEN WANMING ELECTRONICS CO., LTD.
登録番号 Registration number	1417-C9901-022
形態 Forms	Two-terminal capacitor
誘電体の種類 Dielectric Material	Ceramic
タイプ名 (シリーズ名) Type (Series) Designation	HJ, CK, UK
モデル名 Model	HJ○010□XXXXW HJ○560□XXXXW CK○1R5□XXXXW CK○680□XXXXW HJ○1R5□XXXXW HJ○680□XXXXW CK○020□XXXXW CK○820□XXXXW HJ○020□XXXXW HJ○820□XXXXW CK○2R2□XXXXW CK○101□XXXXW HJ○2R2□XXXXW HJ○101□XXXXW CK○030□XXXXW CK○121□XXXXW HJ○030□XXXXW HJ○121□XXXXW CK○3R3□XXXXW CK○151□XXXXW HJ○3R3□XXXXW HJ○151□XXXXW CK○040□XXXXW CK○181□XXXXW HJ○040□XXXXW HJ○181□XXXXW CK○4R7□XXXXW CK○201□XXXXW HJ○4R7□XXXXW HJ○201□XXXXW CK○050□XXXXW CK○221□XXXXW HJ○050□XXXXW HJ○221□XXXXW CK○5R1□XXXXW CK○271□XXXXW HJ○5R1□XXXXW HJ○271□XXXXW CK○5R6□XXXXW CK○301□XXXXW HJ○5R6□XXXXW HJ○301□XXXXW CK○060□XXXXW CK○331□XXXXW HJ○060□XXXXW HJ○331□XXXXW CK○6R8□XXXXW CK○391□XXXXW HJ○6R8□XXXXW HJ○391□XXXXW CK○070□XXXXW CK○471□XXXXW HJ○070□XXXXW HJ○471□XXXXW CK○080□XXXXW CK○561□XXXXW HJ○080□XXXXW HJ○561□XXXXW CK○090□XXXXW CK○681□XXXXW HJ○090□XXXXW HJ○681□XXXXW CK○100□XXXXW CK○821□XXXXW HJ○100□XXXXW HJ○821□XXXXW CK○120□XXXXW CK○102□XXXXW HJ○120□XXXXW HJ○102□XXXXW CK○150□XXXXW CK○122□XXXXW HJ○150□XXXXW HJ○122□XXXXW CK○180□XXXXW CK○152□XXXXW HJ○180□XXXXW HJ○152□XXXXW CK○200□XXXXW CK○182□XXXXW HJ○200□XXXXW HJ○182□XXXXW CK○220□XXXXW CK○202□XXXXW HJ○220□XXXXW HJ○202□XXXXW CK○270□XXXXW CK○222□XXXXW HJ○270□XXXXW HJ○222□XXXXW CK○300□XXXXW CK○272□XXXXW HJ○300□XXXXW HJ○272□XXXXW CK○330□XXXXW CK○332□XXXXW HJ○330□XXXXW HJ○332□XXXXW CK○390□XXXXW CK○392□XXXXW HJ○390□XXXXW HJ○392□XXXXW CK○470□XXXXW CK○472□XXXXW HJ○470□XXXXW HJ○472□XXXXW CK○500□XXXXW UK○010□XXXXW HJ○500□XXXXW CK○010□XXXXW CK○560□XXXXW UK○1R5□XXXXW

モデル名  
Model

UKO020□XXXXW UKO152□XXXXW  
UKO2R2□XXXXW UKO182□XXXXW  
UKO030□XXXXW UKO202□XXXXW  
UKO3R3□XXXXW UKO222□XXXXW  
UKO040□XXXXW UKO272□XXXXW  
UKO4R7□XXXXW UKO332□XXXXW  
UKO050□XXXXW UKO392□XXXXW  
UKO5R1□XXXXW UKO472□XXXXW  
UKO5R6□XXXXW  
UKO060□XXXXW  
UKO6R8□XXXXW  
UKO070□XXXXW  
UKO080□XXXXW  
UKO090□XXXXW  
UKO100□XXXXW  
UKO120□XXXXW  
UKO150□XXXXW  
UKO180□XXXXW  
UKO200□XXXXW  
UKO220□XXXXW  
UKO270□XXXXW  
UKO300□XXXXW  
UKO330□XXXXW  
UKO390□XXXXW  
UKO470□XXXXW  
UKO500□XXXXW  
UKO560□XXXXW  
UKO680□XXXXW  
UKO820□XXXXW  
UKO101□XXXXW  
UKO121□XXXXW  
UKO151□XXXXW  
UKO181□XXXXW  
UKO201□XXXXW  
UKO221□XXXXW  
UKO271□XXXXW  
UKO301□XXXXW  
UKO331□XXXXW  
UKO391□XXXXW  
UKO471□XXXXW  
UKO561□XXXXW  
UKO681□XXXXW  
UKO821□XXXXW  
UKO102□XXXXW  
UKO122□XXXXW

クラス (サブクラス) Class (Sub-class)	Class X (X1), Class Y (Y1)	
定格電圧 (AC/DC) Rated Voltage	X1: AC440V/AC400V Y2: AC400V/AC250V	
定格静電容量 (範囲) 及び定格抵抗値 Capacitance and Resistance (or Range) (if applicable)	1pF~4700pF	
静電容量の公差 Tolerance on Rated Capacitance	±0.25pF (C), ±0.5pF (D)   ±5% (J), ±10% (K), ±20% (M)	
定格電流 (貫通コンデンサの場合) Rated Current (for lead-through capacitor)	—	
耐候性カテゴリー Climatic Category	下限値 Lower category temperature	-40
	上限値 Upper category temperature	125
	高温高湿試験期間 の日数 Duration of the damp heat, steady state test	21
耐炎性カテゴリー Passive Flammability Category	C	
登録日 Issued	2009-02-20	
適用基準 (発行年を含む) Test Standards	Technical requirements of Electrical Appliance and Material Safety Law Article 2 of the Technical Requirements of the METI Ordinance J60384-14(H14) (JIS C5101-14)	
その他 (特別な認証条件等) Additional information	The model name is composed of nine parts. Refer to the appended explanation.	

電気用部品材料登録制度（CMJ登録リスト）

電子機器用固定コンデンサー登録リスト

Fixed Capacitors for electromagnetic interference suppression and connection to the supply mains

登録項目 Registration item	登録内容 Registration detail
登録機関 Certification body	JET
申込者 Applicant	XIAMEN WANMING ELECTRONICS CO., LTD.
登録番号 Registration number	1417-C9901-022
形態 Forms	Two-terminal capacitor
誘電体の種類 Dielectric Material	Ceramic
タイプ名（シリーズ名） Type (Series) Designation	HM, CM, UM
モデル名 Model	HM○010□XXXXW HM○560□XXXXW HM○562□XXXXW CM○330□XXXXW HM○1R5□XXXXW HM○680□XXXXW HM○682□XXXXW CM○390□XXXXW HM○020□XXXXW HM○820□XXXXW HM○822□XXXXW CM○470□XXXXW HM○2R2□XXXXW HM○101□XXXXW HM○103□XXXXW CM○500□XXXXW HM○030□XXXXW HM○121□XXXXW CM○010□XXXXW CM○560□XXXXW HM○3R3□XXXXW HM○151□XXXXW CM○1R5□XXXXW CM○680□XXXXW HM○040□XXXXW HM○181□XXXXW CM○020□XXXXW CM○820□XXXXW HM○4R7□XXXXW HM○201□XXXXW CM○2R2□XXXXW CM○101□XXXXW HM○050□XXXXW HM○221□XXXXW CM○030□XXXXW CM○121□XXXXW HM○5R1□XXXXW HM○271□XXXXW CM○3R3□XXXXW CM○151□XXXXW HM○5R6□XXXXW HM○301□XXXXW CM○040□XXXXW CM○181□XXXXW HM○060□XXXXW HM○331□XXXXW CM○4R7□XXXXW CM○201□XXXXW HM○6R8□XXXXW HM○391□XXXXW CM○050□XXXXW CM○221□XXXXW HM○070□XXXXW HM○471□XXXXW CM○5R1□XXXXW CM○271□XXXXW HM○080□XXXXW HM○561□XXXXW CM○5R6□XXXXW CM○301□XXXXW HM○090□XXXXW HM○681□XXXXW CM○060□XXXXW CM○331□XXXXW HM○100□XXXXW HM○821□XXXXW CM○6R8□XXXXW CM○391□XXXXW HM○120□XXXXW HM○102□XXXXW CM○070□XXXXW CM○471□XXXXW HM○150□XXXXW HM○122□XXXXW CM○080□XXXXW CM○561□XXXXW HM○180□XXXXW HM○152□XXXXW CM○090□XXXXW CM○681□XXXXW HM○200□XXXXW HM○182□XXXXW CM○100□XXXXW CM○821□XXXXW HM○220□XXXXW HM○202□XXXXW CM○120□XXXXW CM○102□XXXXW HM○270□XXXXW HM○222□XXXXW CM○150□XXXXW CM○122□XXXXW HM○300□XXXXW HM○272□XXXXW CM○180□XXXXW CM○152□XXXXW HM○330□XXXXW HM○332□XXXXW CM○200□XXXXW CM○182□XXXXW HM○390□XXXXW HM○392□XXXXW CM○220□XXXXW CM○202□XXXXW HM○470□XXXXW HM○472□XXXXW CM○270□XXXXW CM○222□XXXXW HM○500□XXXXW HM○502□XXXXW CM○300□XXXXW CM○272□XXXXW

モデル名  
Model

CM○332□XXXXW UM○271□XXXXW  
CM○392□XXXXW UM○301□XXXXW  
CM○472□XXXXW UM○331□XXXXW  
CM○502□XXXXW UM○391□XXXXW  
CM○562□XXXXW UM○471□XXXXW  
CM○682□XXXXW UM○561□XXXXW  
CM○822□XXXXW UM○681□XXXXW  
CM○103□XXXXW UM○821□XXXXW  
UM○010□XXXXW UM○102□XXXXW  
UM○1R5□XXXXW UM○122□XXXXW  
UM○020□XXXXW UM○152□XXXXW  
UM○2R2□XXXXW UM○182□XXXXW  
UM○030□XXXXW UM○202□XXXXW  
UM○3R3□XXXXW UM○222□XXXXW  
UM○040□XXXXW UM○272□XXXXW  
UM○4R7□XXXXW UM○332□XXXXW  
UM○050□XXXXW UM○392□XXXXW  
UM○5R1□XXXXW UM○472□XXXXW  
UM○5R6□XXXXW UM○502□XXXXW  
UM○060□XXXXW UM○562□XXXXW  
UM○6R8□XXXXW UM○682□XXXXW  
UM○070□XXXXW UM○822□XXXXW  
UM○080□XXXXW UM○103□XXXXW  
UM○090□XXXXW  
UM○100□XXXXW  
UM○120□XXXXW  
UM○150□XXXXW  
UM○180□XXXXW  
UM○200□XXXXW  
UM○220□XXXXW  
UM○270□XXXXW  
UM○300□XXXXW  
UM○330□XXXXW  
UM○390□XXXXW  
UM○470□XXXXW  
UM○500□XXXXW  
UM○560□XXXXW  
UM○680□XXXXW  
UM○820□XXXXW  
UM○101□XXXXW  
UM○121□XXXXW  
UM○151□XXXXW  
UM○181□XXXXW  
UM○201□XXXXW  
UM○221□XXXXW

クラス (サブクラス) Class (Sub-class)	Class X (X1), Class Y (Y1)	
定格電圧 (AC/DC) Rated Voltage	X1: AC440V/AC400V Y2: AC300V/AC250V	
定格静電容量 (範囲) 及び定格抵抗値 Capacitance and Resistance (or Range) (if applicable)	1pF~4700pF	
静電容量の公差 Tolerance on Rated Capacitance	±0.25pF (C), ±0.5pF (D)   ±5% (J), ±10% (K), ±20% (M)	
定格電流 (貫通コンデンサの場合) Rated Current (for lead-through capacitor)	—	
耐候性カテゴリ — Climatic Category	下限値 Lower category temperature	-40
	上限値 Upper category temperature	125
	高温高湿試験期間 の日数 Duration of the damp heat, steady state test	21
耐炎性カテゴリ Passive Flammability Category	C	
登録日 Issued	2009-02-20	
適用基準 (発行年を含む) Test Standards	Technical requirements of Electrical Appliance and Material Safety Law Article 2 of the Technical Requirements of the METI Ordinance J60384-14(H14) (JIS C5101-14)	
その他 (特別な認証条件等) Additional information	The model name is composed of nine parts. Refer to the appended explanation.	

The model name is composed of nine parts. The meaning is shown in the following.

**Explanation of Part Number**

Example: HM \_ 102 \_ X X X X W

Example: HJ \_ 222 \_ X X X X W

Type1: HM,CM,UM, 440/400V AC X1, 300/250V, AC Y2, 1pF-10000 pF

Type2: H J ,C K ,U K , 440/400V AC X1, 400/250V, AC Y1, 1pF-4700 pF

HM, CM and UM (or HJ, CK and UK) are completely the same products in structure, their different specifications are only because of different markets.

**Temperature Characteristics**

Using code B, E, F, S, C, X

Cord	Temperature characteristics	Capacitance or Temp. coefficient	Temperature Range
B	Y5P	± 10%	-25 to +85
E	Y5U	+20%, -55%	
F	Y5V	+30%, -80%	
S	SL	+350~ -1000ppm/	
C	NPO	± 60ppm/	
X	X7R	± 15%	-55 to +125

**Capacitance**

Expressed by three figures. The unit is pico-farad(pF).

The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers, If there is a decimal point, it is expressed by the capital letter R . in this case, all figures are significant digits.

**Capacitance Tolerance**

Using code C, D, J, K, M, Z

Cord	Capacitance Tolerance
C	± 0.25pF
D	± 0.5pF
J	± 5%
K	± 10%
M	± 20%
Z	+80%, -20%

**Lead style**

The first X, which refers to one letter of A,B,C,D,E,F,G,H,M

Cord	Lead style
A	Straight Lead(Long)
B	Straight Lead(Short)
C	Inside Crimped(Short)
D	Inside Crimped(Long)
E	Outside Crimped(Short)
F	Outside Crimped(Long)
G	Vertical Crimped(Long)
H	Vertical Crimped(Short)
M	Double Crimped snap lead

### Lead Spacing

The second X, which refers to a number of 2,3,4,5

Cord	Lead Spacing
2	5.0mm
3	7.5mm
4	10.0mm
5	12.5mm

### Packaging

The third X, using code

B,A,C,D,E,R,S,T,U

Cord	Pitch of components	Packaging
B	/	Bulk
A	12.7mm	Taping Ammo Pack
C	25.4mm	
D	15.0mm	
E	30.0mm	
R	12.7mm	Taping Reel Pack
S	25.4mm	
T	15.0mm	
U	30.0mm	

### Lead Length

The fourth X, using code two figures 35,50

or no figure

Cord	Lead Length(mm)
35	3.5 ± 1.0
50	5.0 ± 1.0
No Figure	20.0 min

### Internal Code

Using cord W, L

Cord	Meaning
W	Lead-free(ROHS)
L	Halogen-free and lead-free