勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

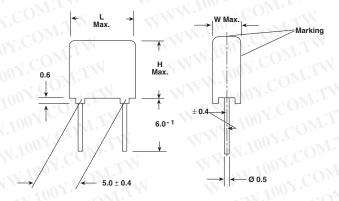
MKT 1817

RoHS COMPLIANT

Vishay Roederstein

### **Metallized Polyester Film Capacitors Related Document: IEC 60384-2**

Dimensions in millimeters



MAIN APPLICATIONS

Blocking, bypassing, filtering and timing, high frequency coupling and decoupling for fast digital and analog ICs, interference suppression in low voltage applications.

MARKING

Manufacturer's logo/type/C-value/rated voltage/tolerance/ date of manufacture

**DIELECTRIC** 

Polyester film

**ELECTRODES** 

Vacuum deposited aluminum

COATING

Flame retardant plastic case (UL-class 94 V-0), green, epoxy resin sealed

CONSTRUCTION

Extended metallized film (refer to general information)

LEADS

Tinned wire

**IEC TEST CLASSIFICATION** 55/100/56, according to IEC 60068

TEST VOLTAGE (ELECTRODE/ELECTRODE) 1.6 x U<sub>R</sub> for 2 s

**OPERATING TEMPERATURE RANGE** - 55°C to + 100°C

**FEATURES** 

Product is completely lead (Pb)-free. Product is RoHS compliant.

CAPACITANCE RANGE 1000pF to 1.0µFF

**CAPACITANCE TOLERANCES**  $\pm 20\%$  (M),  $\pm 10\%$  (K),  $\pm 5\%$  (J)

RATED VOLTAGES (UR) 63 VDC, 100 VDC, 250 VDC, 400 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ 40 VAC, 63 VAC, 160 VAC, 200 VAC

**INSULATION RESISTANCE** 

Measured with 100 VDC Measured with 100 VDC (63 VDC series measured at 50 VDC) after one minute For C  $\leq$  0.33μF and U<sub>R</sub> > 100 VDC: 7500 MΩ minimum value (100,000 MΩ typical value) For C  $\leq$  0.33μF and U<sub>R</sub>  $\leq$  100 VDC: 3750 MΩ minimum value (50,000 MΩ typical value)

TIME CONSTANT

Measured with 50 VDC after one minute

For C >  $0.33\mu$ F:

1250 s minimum value (10,000 s typical value)

CAPACITANCE DRIFT

Up to  $\pm 40^{\circ}$ C,  $\pm 1.5\%$  for a period of two years

DERATING FOR DC AND AC. CATEGORY VOLTAGE UC

At + 85°C:  $U_C = 1.0 U_R$ At + 100°C:  $U_C = 0.8 U_R$ 

SELF INDUCTANCE

~ 6nH measured with 2mm long leads

**PULL TEST ON LEADS** 

≥ 30 N in direction of leads according to IEC 60068-2-21

RELIABILITY

Operational life > 300,000h

Failure rate < 2 FIT (40°C and 0.5 x U<sub>B</sub>)

For further details, please refer to the general information available at www.vishay.com/doc?26033.

OPERATING 7 - 55°C to + 100°	<b>FEMPERATURE RANGE</b> C			
MAXIMUM PU	LSE RISE TIME	W WW	100Y.COM.TW	WW.1007.
PCM	1 100 Y.Co	Maximum Pulse Ris	se Time d <sub>v</sub> /d <sub>t</sub> [V/µs]	W ' 100 1
(mm)	63 VDC	100 VDC	250 VDC	400 VDC
5	15 CO	24	44	100

If the maximum pulse voltage is less than the rated voltage higher d<sub>v</sub>/d<sub>t</sub> values can be permitted.

#### DISSIPATION FACTOR TAN $\delta$

MEASURED AT	C ≤ 0.1µF	0.1μF < C ≤ 1.0μF
1kHz	8 x 10 <sup>-3</sup>	8 x 10 <sup>-3</sup>
10kHz	15 x 10 <sup>-3</sup>	15 x 10 <sup>-3</sup>
100kHz	25 x 10 <sup>-3</sup>	
1	Maxin	num values

Document Number: 26032 Revision: 05-Jul-05

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CAPACITANCE	CAPACITANCE	70	VOLTAGE CODE 06 VDC/40 \			VOLTAGI CODE 0 VDC/63	1	ONY.C	VOLTAGI CODE 25 VDC/160	W		VOLTAGI CODE 40 VDC/200	0
CULTY	WW	W	Н	LT	w	н	L	1 W	Н		W	Н	L
1000pF	- 210	<u>1</u> 1	007.C	OZI.	<u> </u>	_ ^	<u> </u>	1.100	70	MIN	2.5	6.0	7.5
1500pF	- 215		1007.	COM	T	_		W-10	7 C	DIA.T.	2.5	6.0	7.5
2200pF	- 222		1002	COI	7.7	_		14.1	- <del>-</del> 0	OM.	2.5	6.0	7.5
3300pF	- 233	N.	N. <u>100</u>	N.EO	$\overline{M^{-1}}$	N-	-	2.5	6.0	7.5	3.0	6.5	7.5
4700pF	- 247	4/1	M.In.	OY.C	OM	TV <del>-</del>	- 4	2.5	6.0	7.5	3.5	8.5	7.5
6800pF	- 268	-1/	M.T.	nor.	OM	TH	_	2.5	6.0	7.5	3.5	8.5	7.5
0.01μF	- 310	-1	M.M.	1007	CO	N.E.W	_	2.5	6.0	7.5	4.5	9.5	7.5
0.015μF	- 315	_	MA	N.±00	V.C	MATY	_	2.5	6.0	7.5	5.0	10.0	7.5
0.022μF	- 322	_	M.A.	W-10	2.5	6.0	7.5	3.0	6.5	7.5	5.5	11.5	7.5
0.033μF	- 333	_		N#1	2.5	6.0	7.5	3.5	8.5	7.5	V.C	Mil	W-
0.047μF	- 347		-	WW.	2.5	6.0	7.5	4.5	9.5	7.5	00 <del>4</del> .C	OM	CV
0.068μF	- 368	T	_	NAIN	2.5	6.0	7.5	4.5	9.5	7.5	1001	COn	TY
0.1μF	- 410	2.5	6.0	7.5	3.5	8.5	7.5	5.5	11.5	7.5	1.100	CO	M. <del>T</del>
0.15μF	- 415	3.5	8.5	7.5	4.5	9.5	7.5	IM	_	<u> </u>	OOt.V	17.00	M
0.22μF	- 422	3.5	8.5	7.5	5.0	10.0	7.5	T.T.	_		14.10	10 X -	OM
0.33μF	- 433	4.5	9.5	7.5	5.5	9.0	11.5	7.5	_		WW.	00 7.	C <del>O</del> 1
0.47μF	- 447	5.0	10.0	7.5		1/100	V.C	$M_{J_I}$		-	WWW.	100	(.C
0.68μF	-468	5.0	10.5	7.5		WW.I	00 <u>7</u> .0	$O_{\overline{M}}$	TVI	_	WHI	1.100	N.C
1.0μF	- 510	5.5	11.5	7.5		W.	V.	$C\overline{O}_{2i}$	N.	_	W.	W.	o¥.

# RECOMMENDED PACKAGING

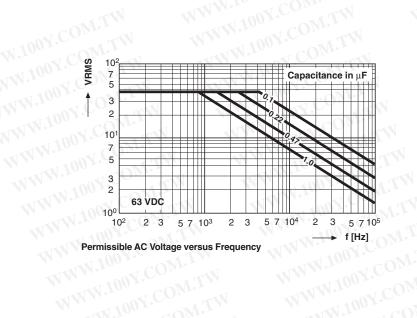
ECOMMENDE	ED PACKAGING				
LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLES	PCM 5
	AMMO	16.5	S*	MKT 1817-233-255-D	Х
	AMMO	18.5	S* 1	MKT 1817-233-255-G	Х
	REEL	16.5	350	MKT 1817-233-255-F	Х
V	REEL	18.5	350 V	MKT 1817-233-255-W	X
	BULK	M.m. COL	TW - W	MKT 1817-233-255	Х

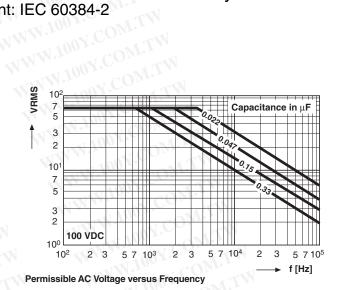
<sup>\*</sup>S = box size 55 x 210 x 340mm (W x H x L)

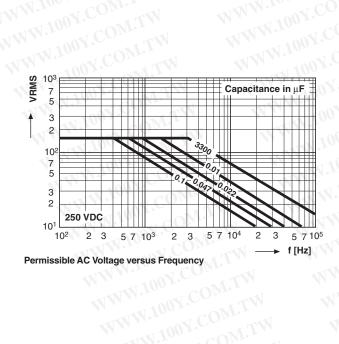


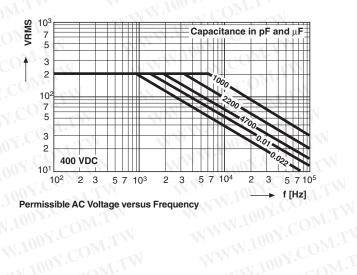
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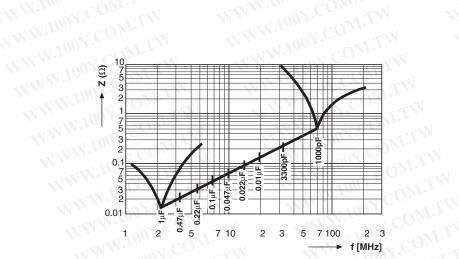
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Impedance versus Frequency Z = f (f) (Lead Length 2.0mm)



Vishav

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