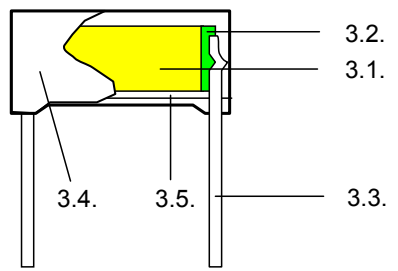


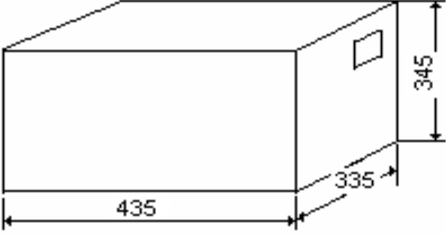
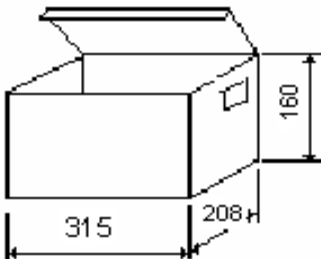
# DVTMCF29-Metallized Polypropylene Film Y2 Capacitor

## PRODUCT SPECIFICATIONS

TYPE :

Y2

NO.	ITEM	DESCRIPTIONS
1.	<b>SCOPE</b>	This specifications cover the requirements of DEVETECH Metallized Polypropylene Film AC Capacitor (Interference Suppressors Class-Y2) Type : Y2
2.	<b>PARTS NUMBER CODE</b>	<p style="text-align: center;"> <b>DVTMCF29    -    105   -    K    300VAC    -    P27.5B C</b> </p> <p style="text-align: center;"> <span style="margin-right: 100px;">Type</span> <span style="margin-right: 100px;">Capacitance</span> <span style="margin-right: 100px;">Tolerance</span> <span style="margin-right: 100px;">Rated Voltage</span> <span>Pitch</span> <span>lead cut, short lead length</span> </p> <p style="text-align: center;"> <span style="margin-right: 100px;">型号</span> <span style="margin-right: 100px;">额定电压</span> <span style="margin-right: 100px;">容 量</span> <span style="margin-right: 100px;">误 差</span> <span>脚 距</span> </p>
3.	<b>CONSTRUCTION</b>	
3.1.	DIELECTRIC	Metallized Polypropylene Film
3.2.	METAL SPRAY	Special Solder
3.3.	LEAD WIRE	Copper-clad Steel Wire
3.4.	PLASTIC CASE	UL94V-0
3.5.	EPOXY RESIN	UL94V-0
		
4.	<b>MARKING</b>	
4.1.	TYPE	"Y2"
4.2.	CAPACITANCE	" 1 μ F"
4.3.	TOLERANCE	"K" to "±10%"
4.4.	RATED VOLTAGE	"300V~" to 300VAC"
4.5.	MARKING COLOR	Black
5.	<b>STANDARD ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS</b>	
5.1.	AMBIENT TEMPERATURE	15°C to 35°C (If there is any doubt on the results, the measurements shall be made at +20 +/- 5°C.)
5.2.	RELATIVE HUMIDITY (R.H.)	45% to 75% (If there is any doubt on the results, the measurements shall be made at 45% to 75%.)
5.3.	AIR PRESSURE	86 kpa to 106 kpa.
5.4.	OPERATING TEMPERATURE RANGE	-40°C to +110°C for which the capacitor can be operated continuously at rated voltage.

NO.	ITEM	DESCRIPTIONS																						
6.	<b>PACKING</b>	The capacitors shall be put in poly-bag and packed in box marked with necessary information.																						
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>External packing box</p> </div> <div style="text-align: center;">  <p>Inside packing box</p> </div> <div style="text-align: right;">Unit:mm</div> </div> <p><b>REMARK : We can offer your specific demand by technology treaty.</b></p>																								
7.	<b>APPLICABLE SPECIFICATIONS</b>	Unless otherwise specified, test conditions and characteristics shall conform to International Industrial Standards IEC60384-14.																						
8.	<b>CERTAIN HAZARDOUS SUBSTANCES</b>																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Testing Item</th> <th style="width: 35%;">Standards</th> <th style="width: 30%;">Testing Method</th> </tr> </thead> <tbody> <tr> <td>Lead/Lead Compounds</td> <td>800ppm</td> <td>US EPA3025</td> </tr> <tr> <td>Mercury/Mercury Compounds</td> <td>80ppm</td> <td>US EPA3025</td> </tr> <tr> <td>Cadmium/Cadmium Compounds</td> <td>800ppm</td> <td>EN 1122</td> </tr> <tr> <td>Hexavalent-Chromium Compounds</td> <td>800ppm</td> <td>IEC 111/24CD 62321</td> </tr> <tr> <td>PBB&amp;PBDE</td> <td>800ppm</td> <td>US EPA3540C</td> </tr> <tr> <td>OTHERS</td> <td>COMPLY WITH ROHS</td> <td>COMPLY WITH ROHS</td> </tr> </tbody> </table>				Testing Item	Standards	Testing Method	Lead/Lead Compounds	800ppm	US EPA3025	Mercury/Mercury Compounds	80ppm	US EPA3025	Cadmium/Cadmium Compounds	800ppm	EN 1122	Hexavalent-Chromium Compounds	800ppm	IEC 111/24CD 62321	PBB&PBDE	800ppm	US EPA3540C	OTHERS	COMPLY WITH ROHS	COMPLY WITH ROHS
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9.	<b>ELECTRICAL CHARACTERISTICS</b>																							
NO.	ITEM	PERFORMANCE	TEST CONDITIONS																					
9.1.	Withstand Voltage (TV)	Between Terminals Shall be no breakdown	Apply 400% of rated voltage for 60 sec., or 1500VDC for 1 min. at +20 +/- 5°C . The charging current must be ≤ 1 Amp.																					
		Between Terminals & Enclosure Shall be no breakdown	Apply 2500VDC for 60sec. at +20 +/- 5°C.																					
9.2.	Insulation Resistance (I.R.)	$\geq 15000 M\Omega$ (C ≤ 0.33 uF) $\geq 5000 \Omega F$ (C > 0.33 uF)	Apply Vt ± 15% for 60 ± 5 sec. at 20±5°C Vt = 100 VDC																					
9.3.	Capacitance (CAP)	Within the tolerance specified. (at +20 +/- 5°C).	Measuring Frequency : 1 KHz +/- 10%. Measuring Voltage : ≤ 1 Vrms.max.																					
9.4.	Dissipation Factor (DF)	≤ 0.0010 (0.10%) at 1 KHz.	Measuring Frequency : 1KHz+/- 10% Measuring Voltage : ≤ 1 Vrms.max.																					

NO.	ITEM		PERFORMANCE	TEST CONDITIONS
<b>10.</b>	<b>MECHANICAL CHARACTERISTICS</b>			
NO.	ITEM		PERFORMANCE	TEST CONDITIONS
10.1.	Terminal Strength	Tensil	Shall be no abnormality.	Apply 1.0 kg for 10 +/- 1 sec. to the terminal in the axial direction, and acting in a direction away from the body.
		Bending	Shall be no abnormality.	Apply 0.5 kg for 2 cycles. Each cycle includes: 90° once, return to its initial position for 2-3 sec., and then to the opposite direction once.
10.2.	Vibration resistance		No electrical discontinuity such as opening ,short-circuit of 0.5ms or more. Also,no abnormality on appearance after test.	The frequency shall be varied uniformly from 10Hz to 55Hz at 1.5mm amplitude and back to 10Hz in approximately 1 minute intervals. This test shall be applied 2hours per each direction, total 6 hours.
10.3.	Solderability		At least 90% of the circumferential face of termination up to immersed level shall be covered with new solder.	Soldering temperature : +260 +/- 5°C. Immersion duration : 2 +/- 0.5 sec.
10.4.	Resistance to soldering heat	Appearance	No visible damage.	Soldering Temperature : +260 +/- 5°C. Immersion Duration : 10+/- 1 sec. Immersion Deepth : 4 +/- 0.8 mm from roots. After test, allow it stay alone for 1.5 +/- 0.5 hrs. at standard temperature and humidity before making measurements.
		Dielectric strength (Between terminations)	No breakdown.	
		Capacitance change	Within +/- 3% of the value before test.	
<b>11.</b>	<b>CLIMATIC TEST</b>			
NO.	ITEM		PERFORMANCE	TEST CONDITIONS
11.1.	Cold Resistance	Capacitance change	Within +/- 3% of the value before test.	Test Temperature : -40 +/-2 °C Test Duration : 2 +/-1 hrs.
11.2.	Dry Heat Resistance	Appearance	Shall be no remarkable change.	Test Temperature : +85 +/- 2°C Test Duration : 16 +/-0 hrs. After the test ,apply 400% of rated voltage for 60 sec., or 2000VDC for 1~3 sec. at +20 +/- 5°C. The charging current must be ≤ 1 Amp.
		Withstand Voltage	No breakdown.	
		Capacitance Change Rate (ΔC/C)	Within +/- 3% of the value before test.	
11.3.	Humidity resistance (steady state)	Appearance	No visible damage.	Test temperature :+40 +/- 2°C Test humidity : 90% to 95% R.H. Test duration : 500 +24/-0 hrs. After test, allow it stay alone for 2.0+/- 0.5 hrs at standard temperature and humidity beforemaking measurements. After the test ,apply 400% of rated voltage for 60 sec., or 2000VDC for 1~3 sec. at +20 +/- 5°C. The charging current must be ≤ 1 Amp.
		Withstand Voltage	No breakdown.	
		Capacitance Change Rate (ΔC/C)	Within +/- 5% of the value before test.	
		Dissipation Factor	Tan δ :0.2% max.(1KHz)	
		Insulation Resistance (I.R.)	≥ 50% of the limit value of No. 9.2.	

NO.	ITEM	PERFORMANCE	TEST CONDITIONS
11.4.	Damp Heat Loading	Appearance	No visible damage.
		Withstand Voltage	No breakdown.
		Capacitance Change Rate ( $\Delta C/C$ )	Within +/- 10% of the value before test.
		Dissipation Factor	Tan $\delta$ :0.2% max.(1KHz)
		Insulation Resistance (I.R.)	$\geq$ 50% of the limit value of No. 9.2.
11.5.	High Temperature Loading	Appearance	No visible damage.
		Withstand Voltage	No breakdown.
		Capacitance Change Rate ( $\Delta C/C$ )	Within +/- 10% of the value before test.
		Dissipation Factor	Tan $\delta$ :0.2% max.(1KHz)
		Insulation Resistance (I.R.)	$\geq$ 50% of the limit value of No. 9.2.
11.6.	Temperature Cycle	Appearance	No visible damage.
		Insulation Resistance (I.R.)	$\geq$ 50% of the limit value of No. 9.2.
		Capacitance Change Rate ( $\Delta C/C$ )	Within +/- 3% of the value before test.
		Dissipation Factor	Tan $\delta$ :0.2% max.(1KHz)

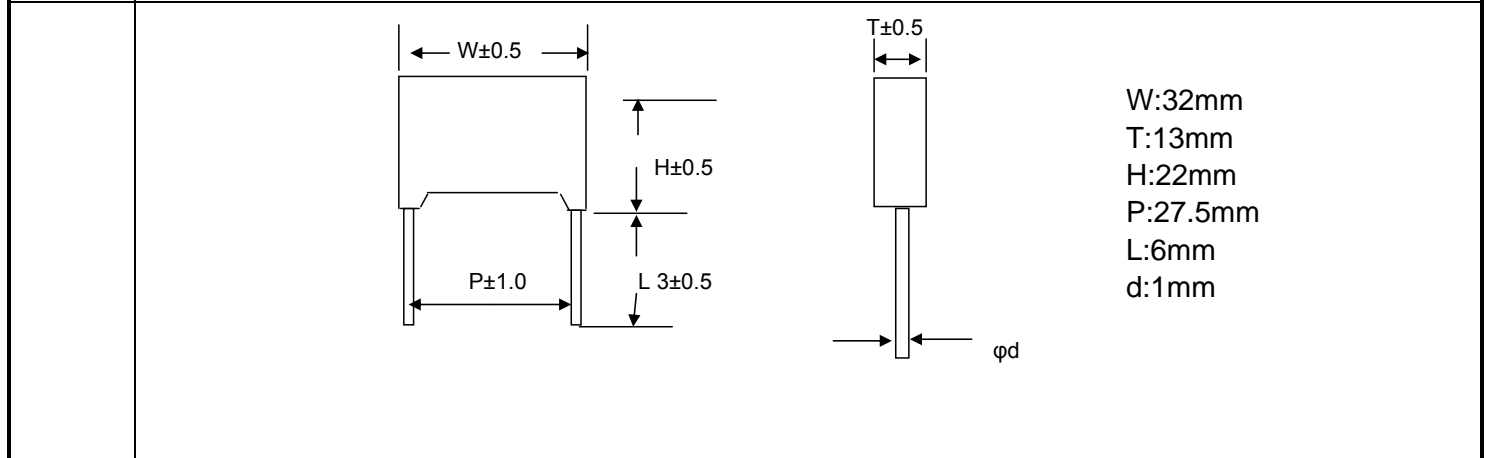
**12 REGULATION IN USAGE**

12.1	Soldering Temperature VS Time	When soldering a capacitor ,heat in soldering is conducted to the elements of the capacitor from lead wire and an enclosure, and hence it should be noted that soldering under high temperature and a long period may cause deterioration of characteristic or breakdown of capacitors.	
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12.2.	Frequency Characteristics		
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<p>12.3.</p>	<p>Temperature Characteristic s[<math>\Delta C/C</math>&amp;DF]</p>	<p><math>\Delta C/C(\%)</math> at 1KHz</p>	<p>DF(%) at 1KHz</p>
<p>12.4.</p>	<p>Temperature Characteristic s[Vn&amp;I.R.]</p>	<p>Vn(%)</p>	<p>I.R.(MOhm)</p>

**13. DRAWING OF DIMENSION**



**14. ACCEPTABLE QUALITY LEVEL (AQL)**

NO.	ITEM	AQL	SAMPLING PLAN
14.1.	Appearance AQL	0.65	According to MIL-STD-105E level II. By lot outgoing inspection.
14.2.	Dimension AQL	0.65	
14.3.	Mechanical Characteristics AQL	0.40	
14.4.	Electrical Characteristics AQL  CAP, DF,  TV, IR,	0.04   Zero Defect	