

To : FARNELL

**Panasonic**

## Technical Data

### Data sheet of Radial Leaded Type Aluminum Electrolytic Capacitors

Part Number: ECA1EM220 (25V 22 $\mu$ F,  $\phi$  5x11)  
ECA1VM220 (35V 22 $\mu$ F,  $\phi$  5x11)

Issue No.: RD-14-YM-156  
Date: 19-Nov-2014

Panasonic Industrial Devices Malaysia Sdn.Bhd.  
No. 1, Jalan Jemuju 16/13, 40200 Shah Alam,  
P.O. Box 7720, Pejabat Pos Besar Shah Alam,  
40724 Shah Alam Selangor Darul Ehsan, Malaysia.

TEL No. : 03-58912864  
Fax No. : 03-58912749

Approved	Checked	Prepared
NIZAM	ROHAIMI	CHUA

## Initial Characteristic Data

Part No : ECA1EM220 (Φ5 X 11)

No	Capacitance at 120Hz / 20°C [ μF ]	Tan δ at 120Hz / 20°C	Leakage Current after 2 min. / 20°C [ μA ]
	<b>26.4 ~17.6</b>	<b>0.14 max.</b>	<b>5.5 max.</b>
1	23.00	0.0669	0.36
2	23.16	0.0688	0.50
3	23.29	0.0668	0.79
4	23.63	0.0668	0.74
5	22.85	0.0670	0.37
6	23.53	0.0657	0.93
7	23.05	0.0659	0.22
8	23.38	0.0660	0.21
9	23.34	0.0652	0.36
10	23.45	0.0649	0.66
Average	23.27	0.0664	0.51
Maximum	23.63	0.0688	0.93
Minimum	22.85	0.0649	0.21
Result	OK	OK	OK

## Initial Characteristic Data

Part No : ECA1VM220 (Φ5 X 11)

No	Capacitance at 120Hz / 20°C [ μF ]	Tan δ at 120Hz / 20°C	Leakage Current after 2 min. / 20°C [ μA ]
	<b>26.4 ~17.6</b>	<b>0.14 max.</b>	<b>7.7 max.</b>
1	23.20	0.0606	0.32
2	22.98	0.0650	0.43
3	22.66	0.0732	0.28
4	23.09	0.0664	0.30
5	22.93	0.0648	0.26
6	22.33	0.0736	0.40
7	22.65	0.0732	0.56
8	22.85	0.0697	0.22
9	23.21	0.0618	0.32
10	23.16	0.0627	0.50
Average	22.91	0.0671	0.36
Maximum	23.21	0.0736	0.56
Minimum	22.33	0.0606	0.22
Result	OK	OK	OK