

NEW

Functional Polymer Capacitors

FPCAP

Solid Electrolytic Capacitors with Functional Polymer

CS Series (Type P, B2) and Lead free

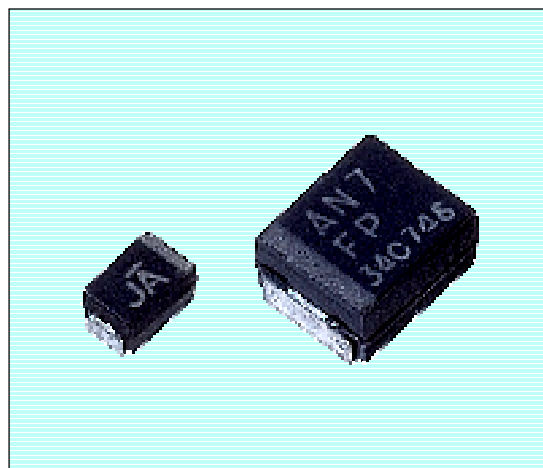
◆ Features

By using Functional Polymer cathode, Frequency characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.

◆ Applications

- Power Supplies of Mobile Telephone.
- Power Supplies of Digital Camera.
- Power Supplies of Multimedia Devices.



◆ Specifications

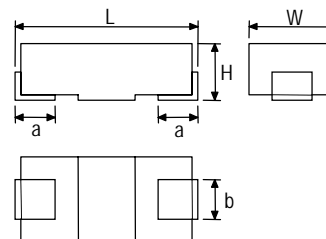
Items		Characteristics	
Type		P	B2
Operating Temp. Range		-55 to +105°C	
Max. Operating Temp. at RV		+85°C	
Rated Voltage Range		4.0 to 6.3VDC	2.5 to 10VDC
Capacitance Range		3.3 to 15 µF	22 to 220 µF
Capacitance Tolerance		±20% (M)	
Endurance	Condition	85°C 1,000Hrs at rated voltage	
	Capacitance	Within ±20% of the value before test	Within +40/-20% of the value before test
	Leakage Current	Not to exceed 200% of the value specified	Not to exceed the value specified
	Dissipation Factor	Not to exceed 150% of the value specified	Not to exceed 150% of the value specified
Resistance to Soldering Heat		240°C 10sec (Reflow)	
Reliability		1% / 1,000Hrs. Max (60%CL)	
Others		EIAJ RC-2378	

◆ Standard Ratings

Cap(µF)	R.V.(V)	2.5	4.0	6.3	10.0
	S.V.(V)	3.2	5.2	8.2	13.0
3.3				P	
4.7			P	P	
6.8			P	P	
10			P	P	
15			P		
22					B2
33					B2
47				B2	B2
68			B2	B2	
100			B2	B2	
150	B2	B2			
220	B2				

Current Products
Release from 1Q-CY2004

◆ Dimensions



(Unit : mm)

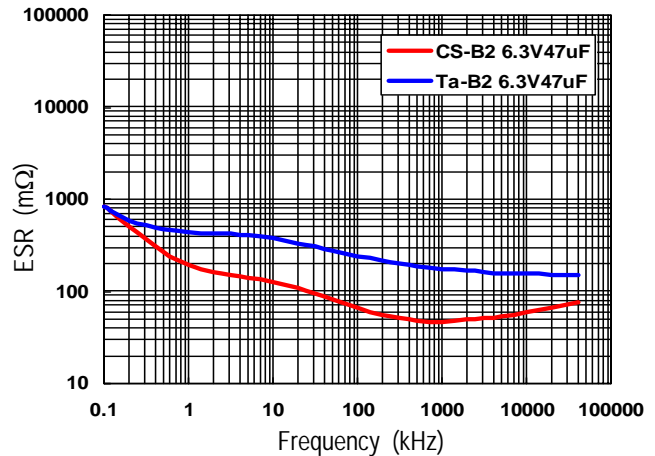
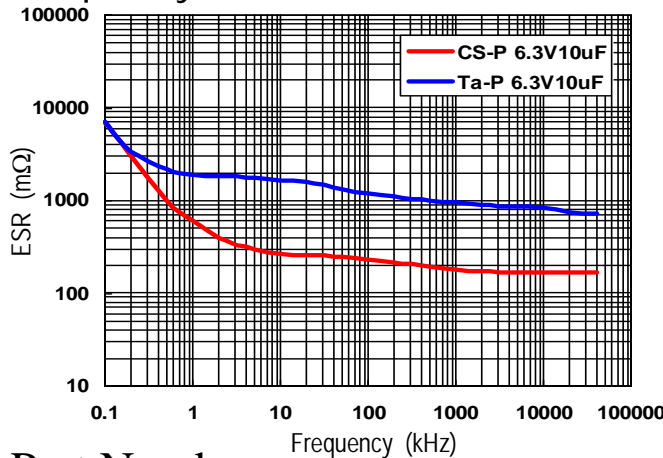
Type	L ±0.2	W ±0.2	H ±0.2	a ±0.2	b ±0.2
P	2.0	1.25	1.2max	0.6	0.9
B2	3.5	2.8	1.9	0.8	2.2

◆ Part number & Specifications

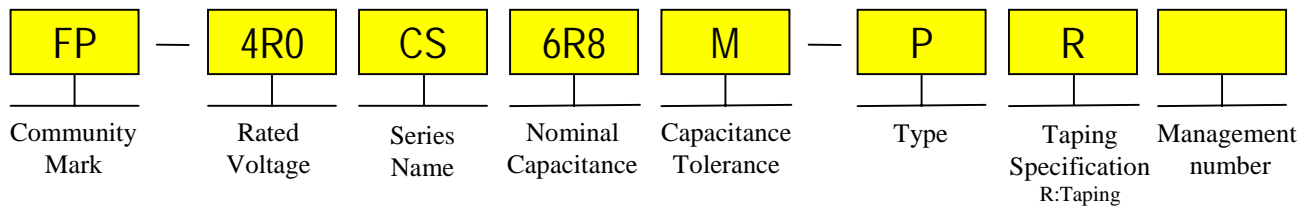
Rated voltage (V)	Capacitance (μF)	Part number	Leakage Current (μA)	tanδ (%)	ESR (mΩ, 100kHz)	Maximum permissible ripple current (mA, r.m.s.)	Case Size L×W×H(mm)
2.5	150	FP-2R5CS151M-B2R□	37.5	8	80	1100	3.5×2.8×1.9
	220	FP-2R5CS221M-B2R□	55.0	8	70	1100	3.5×2.8×1.9
4.0	6.8	FP-4R0CS6R8M-P R□	10.0	6	500	400	2.0×1.25×1.2
	10	FP-4R0CS100M-P R□	10.0	10	500	400	2.0×1.25×1.2
	68	FP-4R0CS680M-B2R□	27.2	8	80	1000	3.5×2.8×1.9
	100	FP-4R0CS101M-B2R□	40.0	8	80	1100	3.5×2.8×1.9
	150	FP-4R0CS151M-B2R□	60.0	8	70	1100	3.5×2.8×1.9
6.3	3.3	FP-6R3CS3R3M-P R□	10.0	6	500	400	2.0×1.25×1.2
	4.7	FP-6R3CS4R7M-P R□	10.0	6	500	400	2.0×1.25×1.2
	10	FP-6R3CS100M-P R□	10.0	10	500	400	2.0×1.25×1.2
	47	FP-6R3CS470M-B2R□	29.6	8	80	1000	3.5×2.8×1.9
	68	FP-6R3CS680M-B2R□	42.8	8	80	1100	3.5×2.8×1.9
	100	FP-6R3CS101M-B2R□	63.0	8	70	1100	3.5×2.8×1.9
10	22	FP-010CS220M-B2R□	22.0	8	100	800	3.5×2.8×1.9
	33	FP-010CS330M-B2R□	33.0	8	100	800	3.5×2.8×1.9
	47	FP-010CS470M-B2R□	47.0	8	100	800	3.5×2.8×1.9

Current Products Release from 1Q-CY2004

◆ Frequency Characteristics



◆ Part Number (EX)4V6.8μF, ±20% P Type, Taping.



FUJITSU MEDIA DEVICES LIMITED

● Sales Offices

• North and South America
FUJITSU MEDIA DEVICES OF AMERICA INC,
 1731 Technology Drive, Suite 800, San Jose, CA 95110 USA
 Tel. +1-408-437-8900 Fax. +1-408-437-0700

• Europe
FUJITSU MIKROELEKTRONIK EUROPE GmbH
 Am Siebenstein 6-10, D-63303 Dreieich-Buchschlag, Germany
 Tel. +49-61-03-690-0 Fax. +49-61-03-690-122

• Asia Pacific
FUJITSU MEDIA DEVICES HONG KONG LIMITED
 Room. 1101 Ocean Centre, 5 Canton Road, Tsimshatsui Kowloon, Hong Kong
 Tel. +852-2866-8509 Fax. +852-2866-8287

FUJITSU MEDIA DEVICES TRADING (Shanghai) LIMITED
 Room. 3104, Bund Center 222 Yan An Road East, Shanghai 200002, China
 Tel. +86-21-6323-4560 Fax. +86-21-6323-4510

* Design and Specifications are subject to change without notice.
 For more information. Please contact our sales office or distributor near to your company.