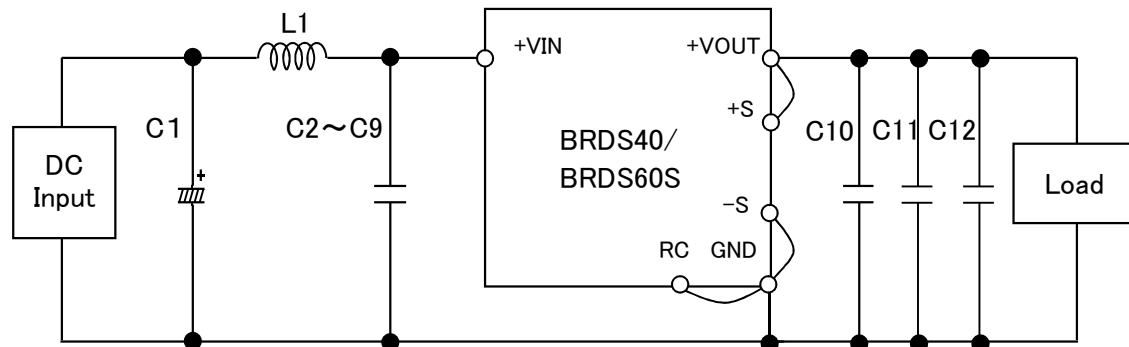


BRDS series EMI/EMS Test resultApproved: Yoshimichi Hirokawa
Yoshimichi HirokawaPrepared: Yasuhiro Masuya
Yasuhiro Masuya

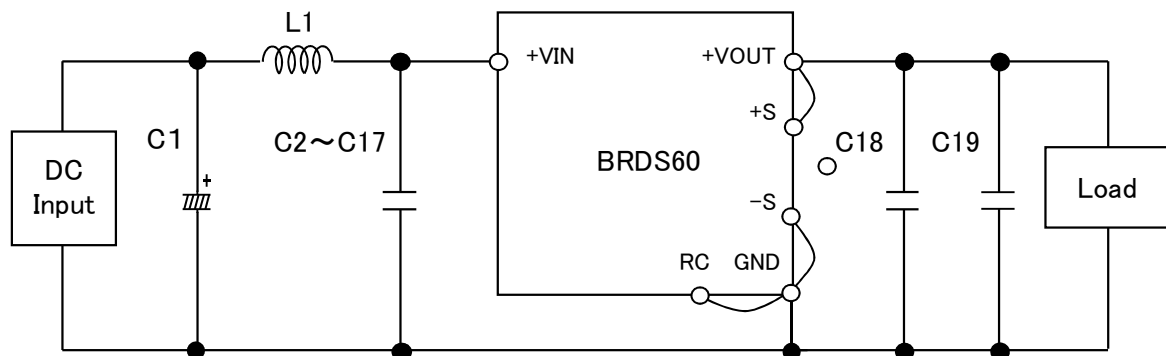
No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1~Fig.4	(1)Meets the undermentioned standard. FCC Part15 classA , VCCI classA CISPR22 classA , EN55022-A	OK
2	Radiated emission	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1~Fig.4	(1)Meets the undermentioned standard. FCC Part15 classA , VCCI classA CISPR22 classA , EN55022-A	OK
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4) (5) Testing circuitry Fig.1~Fig.4	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
4	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4)Testing field strength 10[V/m] (EN61000-4-3 Level 3) (5) Testing circuitry Fig.1~Fig.4	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK

○ Testing circuitry



C1	: 25V	470 μ F	Electrolytic capacitor
C2~9	: 16V	22 μ F	Ceramic capacitor
C10,C11,C12	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.3 μ H	ETQP2H0R3BFA	(Panasonic Electronics Devices)

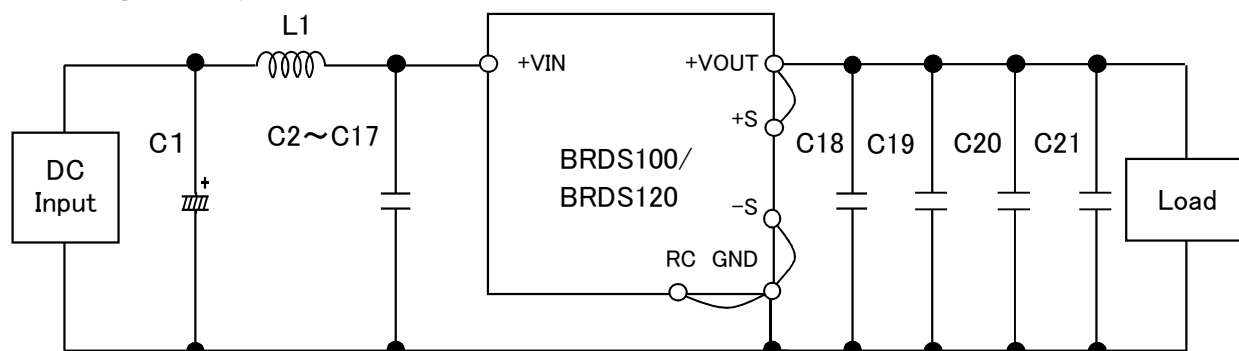
Fig.1 Testing Circuitry (BRDS40/BRDS60S)



C1	: 25V	470 μ F	Electrolytic capacitor
C2~C17	: 16V	22 μ F	Ceramic capacitor
C18 ,C19	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.3 μ H	ETQP2H0R3BFA	(Panasonic Electronics Devices)

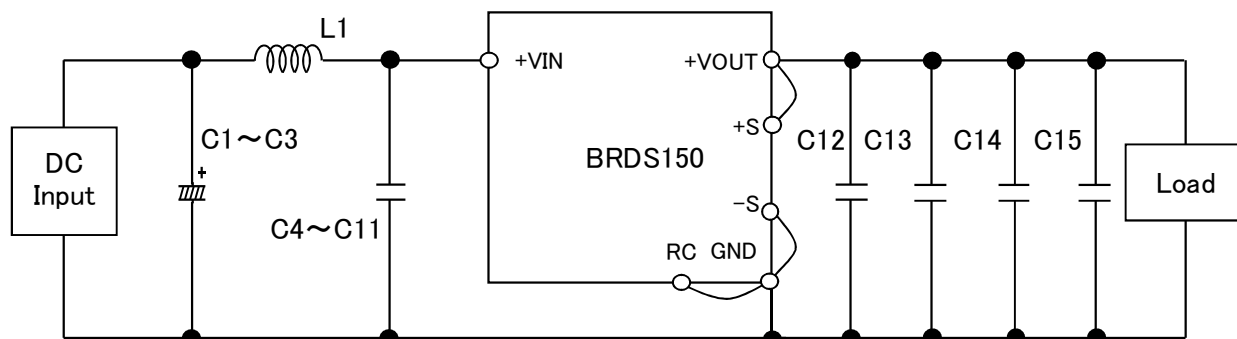
Fig.2 Testing Circuitry (BRDS60)

○ Testing circuitry



C1	: 25V	470 μ F	Electrolytic capacitor
C2~C17	: 16V	22 μ F	Ceramic capacitor
C18~C21	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.3 μ H	ETQP2H0R3BFA	(Panasonic Electronics Devices)

Fig.3 Testing Circuitry (BRDS100/120)



C1~C3	: 25V	470 μ F	Electrolytic capacitor
C4~C11	: 16V	22 μ F	Ceramic capacitor
C12~C15	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.3 μ H	ETQP2H0R3BFA	(Panasonic Electronics Devices)

Fig.4 Testing Circuitry (BRDS150)