



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

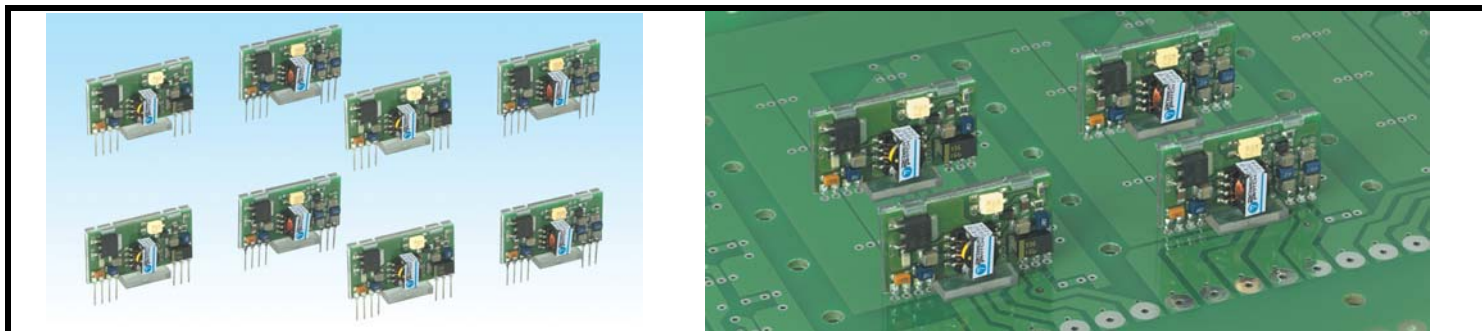
DC/DC SWITCHING POWER SUPPLY

DC INPUT 5, 12/24, 24/48

SINGLE & DUAL OUTPUT

SMALL SIZE, HIGH EFFICIENCY, LOW COST

3 WATTS



OTQ SERIES DC INPUT: 5V

Input Characteristic		OTQ05SC05	OTQ12SC05	OTQ15SC05	OTQ24SC05	OTQ22WC05	OTQ23WC05
Rated Voltage	DC [V]	5	5	5	5	5	5
Input Range	DC [A]	4 ~ 8					
Inrush Current	[A]	No Regulation					
Input Current [Hz]							
at No Load	[mA]Typ.	45	65	60	64	64	63
at Rated Load	[mA]Typ.	684	843	800	821	854	810
Input Leak Voltage	[mVp-p]Typ.	600	600	600	600	600	600
Efficiency	[%]Typ. *1	73	74	75	76	73	74

*1. at Rated Input and Output , 25°C

OTQ SERIES DC INPUT: 12/24V

Input Characteristic		OTQ05SC1224		OTQ12SC1224		OTQ15SC1224		OTQ24SC1224		OTQ22WC1224		OTQ23WC1224	
Rated Voltage	DC [V]	12	24	12	24	12	24	12	24	12	24	12	24
Input Range	DC [A]	8 ~ 32											
Inrush Current	[A]	No Regulation											
Input Current [Hz]													
at No Load	[mA]Typ.	22	23	22	22	25	24	31	29	26	26	29	28
at Rated Load	[mA]Typ.	324	171	329	173	308	164	317	168	329	178	312	166
Input Leak Voltage	[mVp-p]Typ.	500	300	500	300	500	300	500	300	500	300	500	300
Efficiency	[%]Typ. *1	77	71	80	75	81	76	81	76	79	74	80	76

*1. at Rated Input and Output , 25°C

OTQ SERIES DC INPUT: 24/48V

Input Characteristic		OTQ05SC2448		OTQ12SC2448		OTQ15SC2448		OTQ24SC2448		OTQ22WC2448		OTQ23WC2448	
Rated Voltage	DC [V]	24	48	24	48	24	48	24	48	24	48	24	48
Input Range	DC [A]	18 ~ 72											
Inrush Current	[A]	No Regulation											
Input Current [Hz]													
at No Load	[mA]Typ.	9	11	12	14	13	16	16	18	15	17	16	17
at Rated Load	[mA]Typ.	160	82	162	86	154	83	158	86	164	89	154	84
Input Leak Voltage	[mVp-p]Typ.	400	400	400	400	400	400	400	400	400	400	400	400
Efficiency	[%]Typ. *1	78	72	80	74	82	75	82	75	79	73	80	74

*1. at Rated Input and Output , 25°C



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Output Characteristic									
Rated Output Voltage [V]	5	12	15	24	+12	-12	+15	-15	
Rated Output Current [A]	0.5	0.26	0.2	0.13	0.13	0.13	0.10	0.10	
Voltage Tolerance *2 ± [mV]Max.	150	360	450	720	360	360	450	450	
Ripple and Noise *3 [mV]Max.	100								
Regulation									
a.Line Reg. [mV]Max.	25	60	75	120	60	60	75	75	
b.Dynamic Line Reg.*4 [mV]Max.	200	480	600	960	600	600	750	750	
c.Load Reg. [mV]Max.	25	60	75	120	60	60	75	75	
Cross Reg. [mV]Max.					1200	1200	1500	1500	
d.Temp.Coefficient	0.03 [%/°C]Max.								
e.Dirift [mV]Max.	40	75	90	135	75	75	90	90	
f.Dynamic Load Reg. [mV]Max.	200	480	600	960	600	600	750	750	
f.Dynamic Load Reg. [mV]Max.	20								
Rise up Time [mS]Max.	10								
Hold up Time [mS]Min.	No Regulation								
Attached Function									
Over Current Protection	Built In								
Over voltage Protection	Not Available								
Remote Sense	Not Available								
Output Voltage Trimming	Not Available								
Input Fuse	Built In (2[A])								
Environment									
Operating Temperature	-20<ta≤70 [°C] (Rated Output) / 70<Ta≤80 (Decrease Output Current [3.5% / °C])								
Operating Humidity	20 ~90 [%RH]								
Storage Temperature	-20 ~ 85[°C]								
Storage Humidity	20 ~ 90 [%RH]								
Withstanding Voltage	Primary - Secondary AC500[V] ,1Min.								
Isolation Resistance	Primary - Secondary 100MΩ(at DC500[V])								
Input-Output Capasitar	None								
Vibration	5~10[Hz] 10[mm],10~55[Hz] 19.6[m/S2] 20minute/cycle X,Y,Z Each Axes 0.5[h]								
Shock	294 [m/S2]								
Cooling	Convection Cooling								
Weight [g]	5								
MTBF [H] By EIAJ RCR9102	1.600.000				1.430.000				
Frequency [kHz]Typ.	150K~1M [Hz] (at input 8~32[V], Output 0~100[%])								
Dimension	9(W) X 36(D) X 19.5(H)								

*2. WC type at same load each channel.

*3. DC~100 [MHz] by Byonet probe

*4. at Rated Output Input quick change 4V ↔ 8V / 8V ↔ 32V / 18V ↔ 72V



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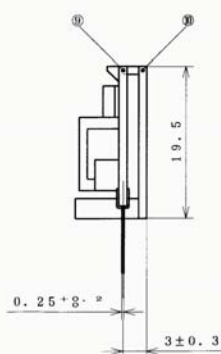
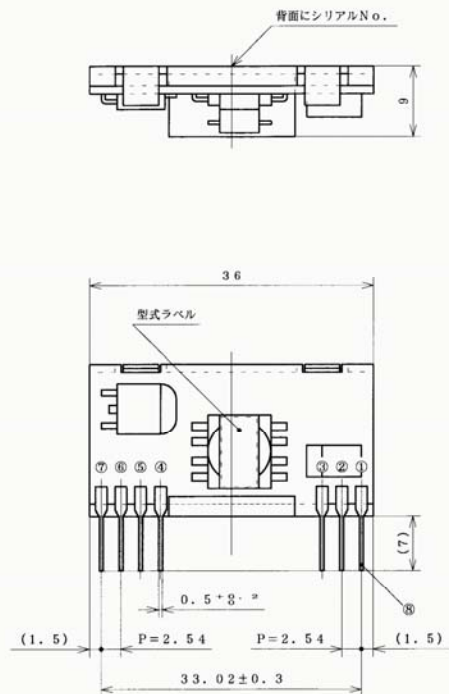
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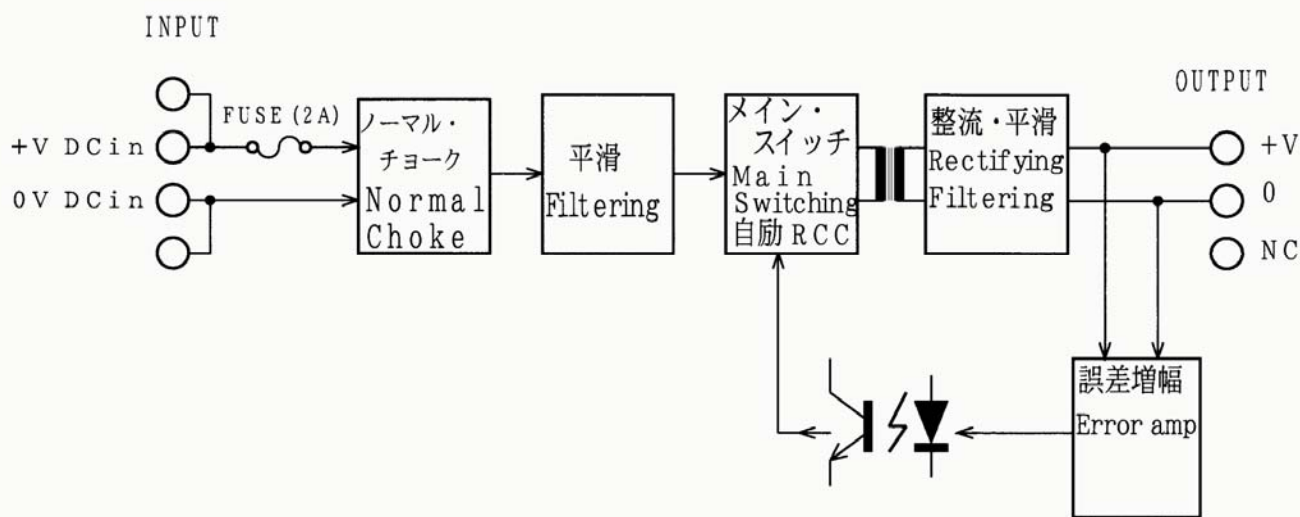
OUTLINE DRAWING



単出力		2出力	
① NC		① -V OUT	
② 0V OUT		② COM	
③ +V OUT		③ +V OUT	
④ 0V IN		④ 0V IN	
⑤ 0V IN		⑤ 0V IN	
⑥ +V IN		⑥ +V IN	
⑦ +V IN		⑦ +V IN	

⑧ PE2.54-0.9-8 材質 C5191R-1/2H
処理 鍍下メッキ 2~3μm
半田メッキ 3~8μm
⑨ プリント基板 FR4 t=1.0 両面スルーホール
⑩ PC (透明) UL94V2
* 一般公差 ±0.5
部品配置は、機種毎に若干異なります。

OUTLINE DRAWING



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[OTQ24SC1224](#) [OTQ05SC1224](#) [OTQ15SC1224](#) [OTQ12SC1224](#) [OTQ15SC2448](#) [OTQ12SC2448](#) [OTQ24SC2448](#)
[OTQ05SC2448](#) [OTQ22WC1224](#) [OTQ23WC1224](#) [OTQ05SC05](#)