

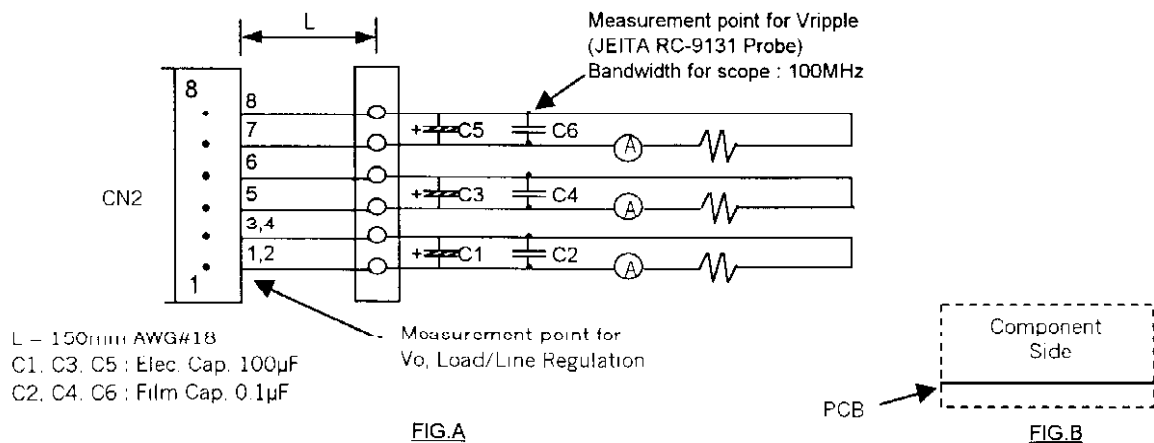
ZT90 SPECIFICATIONS

PA740-01-01B

MODEL			ZT90 - 522			ZT90 - 5FF			ZT90 - 525		
ITEMS											
1	Nominal Output Voltage	V	5	+12	-12	5	+15	-15	5	+12	-5
2	Minimum Output Current	A	1	0	0	1	0	0	1	0	0
3	Maximum Output Current (peak current)	A	10	3 (4)	0.5	10	2.5 (4)	0.5	10	3 (4)	0.5
4	Maximum Output Power (peak power)	W	92 (104)			95 (117.5)			88.5 (100.5)		
5	Efficiency (Typ)	(%1) %	74			74			74		
6	Input Voltage Range	(%2) -	85 ~ 132VAC / 170 ~ 265VAC (47 ~ 440Hz) or 230 ~ 330VDC								
7	Input Current (Typ)	(%1) -	2.2 / 1.1A at 100/200VAC								
8	Inrush Current (Typ)	-	30A at 100 / 200VAC Ta = 25°C COLD START								
9	Output Voltage Range	-	CH1: +5% - 0% CH2, 3 : Fixed								
10	Maximum Ripple & Noise	(%3) mV	120	150	150	120	150	150	120	150	120
11	Maximum Line Regulation	(%3, 4) mV	20	48	48	20	60	60	20	48	20
12	Maximum Load Regulation	(%3, 5) mV	40	96	96	40	120	120	40	96	40
13	Maximum Temperature Drift	(%3, 6) mV	50	240	240	50	300	300	50	240	100
14	Over Current Protection	(%7) -	105% ~								
15	Over Voltage Protection	(%8) -	Output shutdown 115% ~ 135% (CH1 only)								
16	Hold-Up Time (Typ)	(%1) -	17mS at 92W								
17	Operating Temperature	(%9)	10 ~ 50°C : 100% 60°C : (70%)								
18	Operating Humidity	-	30 ~ 90% RH								
19	Storage Temperature	-	-30 ~ 85°C								
20	Storage Humidity	-	10 ~ 95% RH								
21	Cooling	-	Convection Cooled								
22	Withstand Voltage	-	Input-Output : 3.75KVAC, Input-FG : 2.5KVAC Output-FG : 500VAC 1min								
23	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-FG 500VDC								
24	Vibration	-	10-55Hz Amplitude (sweep 1 min) Less than 2G X,Y,Z 1h each								
25	Shock	-	Less than 20G								
26	Safety	-	Built to meet UL1950-D3, CSA1402C & DENTORI, VDE0805/ 0806								
27	Conducted Radio Noise	-	Built to meet VCCI II & FCC class B & VDE class B								
28	Weight	-	490g								
29	Size (W.H.D)	-	94mm X 36mm X 205mm								

NOTES :

- *1 : At 100VAC and maximum output power, Ta = 25°C.
- *2 : For cases where conformance to various safety specs (UL, CSA, VDE) are required to be described as 100-120VAC, 200 - 240VAC 50/60Hz on name plate.
- *3 : Please refer to Fig A for measurement determination of line & load regulation and output ripple voltage.
- *4 : From 85-132VAC / 170-265VAC, constant load.
- *5 : From Min load - Full load (Maximum power), constant input voltage.
- *6 : From -10 ~ +50°C, constant input voltage and load.
- *7 : Current limiting with automatic recovery.
Avoid to operate over load or dead short for more than 30 seconds.
- *8 : OVP circuit will shut down output, manual reset.
- *9 : At standard mounting method, Fig. B.



ZT90

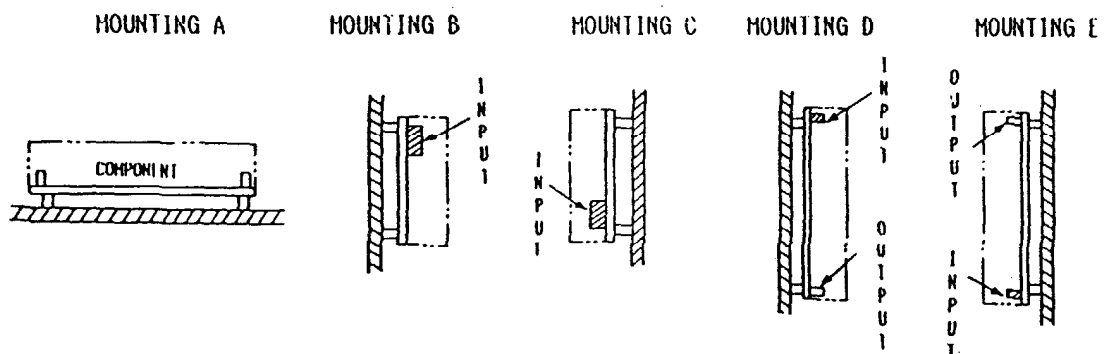
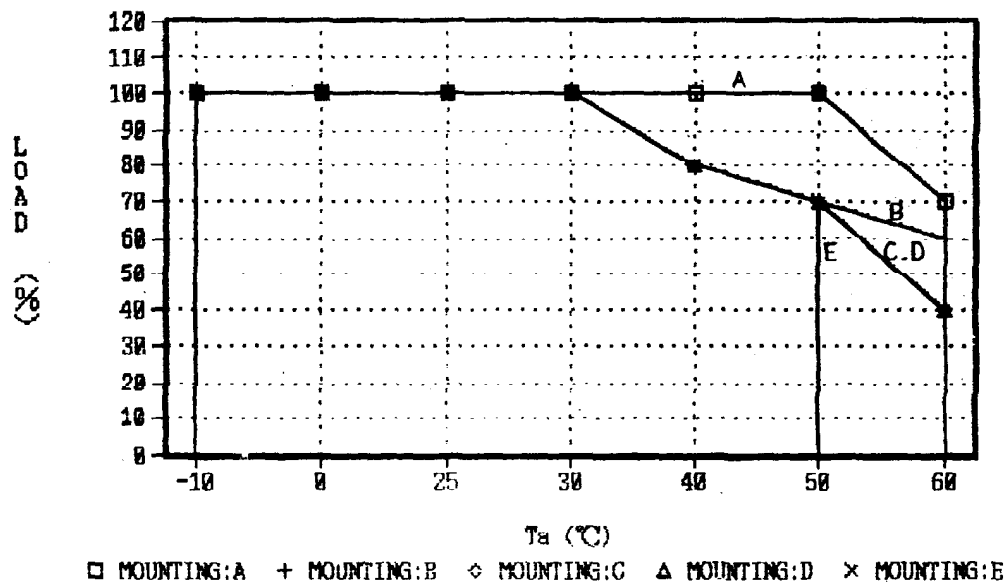
OUTPUT DERATING

PA/40-01-02

* COOLING: CONVECTION COOLING

Ta (°C)	LOAD (%)				
	MOUNTING:A	MOUNTING:B	MOUNTING:C	MOUNTING:D	MOUNTING:E
-10	100	100	100	100	100
0	100	100	100	100	100
25	100	100	100	100	100
30	100	100	100	100	100
40	100	80	80	80	80
50	100	70	70	70	70
60	70	60	40	40	-

OUTPUT DERATING CURVE



ANEMIC-LAMBDA