

MDA1505 series

For Specifications, See MDA942 Data.

MDA1591

For Specifications, See MDA942 Data.

MDA3551, MDA3661, MDA3552, MDA3662

HIGH VOLTAGE TRIPLER ASSEMBLIES

... designed for use in horizontal deflection circuits of black and white and color television, and in high resolution CRT terminals to supply high voltage to the picture tube.

- 30,000 Volt Output
- Excellent Regulation With Changing Load

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Input Voltage, Peak-to-Peak	$V_{in(p-p)}$	10,000	Volts
Average Forward Output Current $T_A = 75^\circ\text{C}$, $V_{out} = 25\text{ kV}$	$I_F(AV)$	3.0*	mA
Average Forward Focus Current $T_A = 75^\circ\text{C}$, $V_{out} = 25\text{ kV}$	$I_F(AV)(\text{focus})$	0.5	mA
Arcing Capability 30 kV, 1 arc/s	—	60	s
Short Circuit Overload Output to chassis ground	—	3.0	Minutes
Operating Temperature, Ambient	T_A	75	$^\circ\text{C}$

*Derate to zero output with $V_{out} = 30\text{ kV}$.

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Typ	Max	Unit
Output Voltage (11 μs pulse width, 15.75 kHz repetition rate) $V_{in} = 10\text{ kV}$, $I_{out} = 0$ $V_{in} = 8.5\text{ kV}$, $I_{out} = 1.5\text{ mA}$	V_{out}	30,000 25,000	—	Volts
Forward Voltage, $I_F = 2.0\text{ mA}$	V_F	—	150	Volts
Reverse Current, $V_R = 30,000\text{ V}$	I_R	—	1.0	μA
Voltage Regulation $V_{in} = 8500\text{ Volts}$, $I_{out} = 100\text{ }\mu\text{A}$ to 1.0 mA	ΔV_{out}	1,800	—	Volts
Focus Terminal Voltage $I_{out} = 1.5\text{ mA}$, $V_{in} = 8.5\text{ kV}$	$V(\text{focus})$	8,000	—	Volts

MECHANICAL CHARACTERISTICS

CASE: Housing and epoxy fill are self-extinguishing and arc-tracking resistant. Case and epoxy fill are SEO rated.

FINISH: All external surfaces are corrosion resistant. Terminals are readily solderable.

POLARITY: Polarity designation is indicated by position in the outline drawing marked on case.

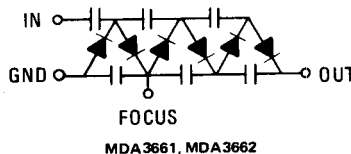
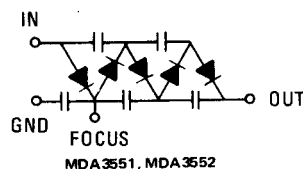
MOUNTING POSITION: Any. Terminals must be adequate distance from ground potential. Case may be mounted on the chassis.

WEIGHT: (approximate) 9.7 oz. for Case 280; 11.7 oz. for Case 281.

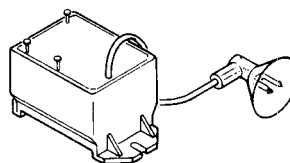
ANODE CONNECTOR: Hobson Bros., Type P125-23

VOLTAGE TRIPLERS

30,000 VOLTS
3 MILLIAMPERES

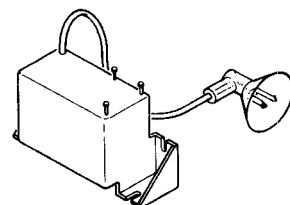


CASE 281



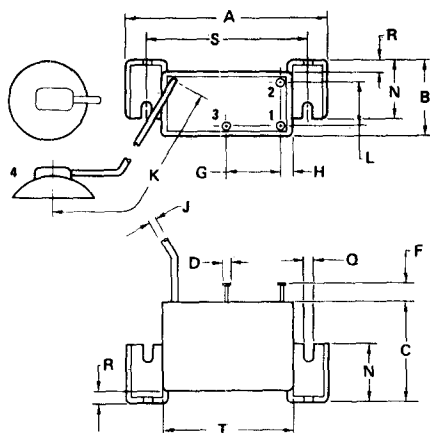
MDA3551, MDA3661

CASE 280



MDA3552, MDA3662

MDA3551, MDA3552, MDA3661, MDA3662 (continued)

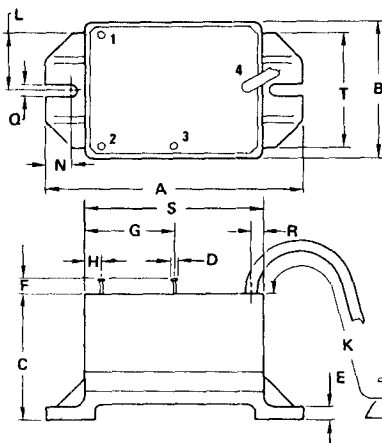


STYLE 1:
TERM. 1. INPUT
2. GROUND
3. FOCUS
4. OUTPUT

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	107.29	108.56	4.224	4.274
B	41.02	41.53	1.615	1.635
C	53.72	54.23	2.115	2.135
D	3.68	3.94	0.145	0.155
F	9.40	9.65	0.370	0.380
G	31.12	31.37	1.225	1.235
H	3.68	3.94	0.145	0.155
J	3.81	5.08	0.150	0.200
K	304.80	381.00	12.000	15.000
L	27.31	27.56	1.075	1.085
N	31.50	32.00	1.240	1.260
Q	4.70	4.95	0.185	0.195
R	6.10	6.60	0.240	0.260
S	85.60	85.85	3.370	3.380
T	69.85	70.10	2.750	2.760

*Length and type of lead may be specified, consult factory.

Case 280
MDA3552, MDA3662



STYLE 1:
TERM. 1. INPUT
2. GROUND
3. FOCUS
4. OUTPUT

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	98.68	100.20	3.885	3.945
B	53.09	53.59	2.090	2.110
C	49.28	49.78	1.940	1.960
D	3.56	3.94	0.140	0.155
E	4.50	5.00	0.177	0.197
F	5.08	9.62	0.200	0.380
G	34.04	34.54	1.340	1.360
H	6.10	6.60	0.240	0.260
J	3.81	5.08	0.150	0.200
K	304.80	381.00	12.000	15.000
L	21.84	22.35	0.860	0.880
N	7.37	7.87	0.290	0.310
Q	4.70	4.95	0.185	0.195
R	4.83	5.33	0.190	0.210
S	68.71	69.22	2.705	2.725
T	43.94	44.45	1.730	1.750

*Length and type of lead may be specified, consult factory.

Case 281
MDA3551, MDA3661