

# Photomultiplier Tube Assemblies



TACCF0133

## Photomultiplier Tube Assemblies

Photomultiplier tube assemblies are made up of a photomultiplier tube, a voltage-divider circuit and other components, all integrated into a single case.

Type No.	Assembly Dia. (mm)	PMT Dia. mm (inch)	Built-in PMT	Curve Code	Wavelength (nm)	Out-line No.	Dynode Structure / Stages	Max. Rating		Cathode Sensitivity		
								Anode to Cathode Voltage Max. (V)	Divider Current Max. (mA)	Anode to Cathode Supply Voltage (V)	Luminous Typ. ( $\mu\text{A}/\text{lm}$ )	Blue Sensitivity Index (CS 5-58) Typ.
H3164-10	$\phi$ 10.5	10 (3/8)	R1635	400K	300 to 650	1	L/8	-1500	0.41	-1250	100	10.0
H3695-10	$\phi$ 11.3	10 (3/8)	R2496	400S	160 to 650	2	L/8	-1500	0.37	-1250	100	10.0
H3165-10	$\phi$ 14.3	13 (1/2)	R647-01	400K	300 to 650	3	L/10	-1250	0.34	-1000	110	10.0
H6520	$\phi$ 23.5	19 (3/4)	R1166	400K	300 to 650	4	L/10	-1250	0.33	-1000	110	10.5
H6524	$\phi$ 23.5	19 (3/4)	R1450	400K	300 to 650	5	L/10	-1800	0.43	-1500	115	11.0
H6612	$\phi$ 23.5	19 (3/4)	R3478	400K	300 to 650	6	L/8	-1800	0.35	-1700	115	11.0
H6152-70	$\phi$ 31.0	25 (1)	R5505-70	—	300 to 650	7	FM/15	+2300	0.41	+2000	80	9.5
H6533	$\phi$ 31.0	25 (1)	R4998	400K	300 to 650	8	L/10	-2500	0.36	-2250	70	9.0
H7415	$\phi$ 33.0	28 (1-1/8)	R6427	400K	300 to 650	9	L/10	-2000	0.41	-1500	95	11.0
H3178-51	$\phi$ 47.0	38 (1-1/2)	R580	400K	300 to 650	10	L/10	-1750	0.63	-1500	95	11.0
H8409-70	$\phi$ 45.0	38 (1-1/2)	R7761-70	—	300 to 650	11	FM/19	+2300	0.33	+2000	80	9.5
H1949-51	$\phi$ 60.0	51 (2)	R1828-01	400K	300 to 650	12	L/12	-3000	0.70	-2500	90	10.5
H6410	$\phi$ 60.0	51 (2)	R329-02	400K	300 to 650	13	L/12	-2700	0.67	-2000	90	10.5
H7195	$\phi$ 60.0	51 (2)	R329-02	400K	300 to 650	14	L/12	-2700	1.23	-2000	90	10.5
H2431-50	$\phi$ 60.0	51 (2)	R2083	400K	300 to 650	15	L/8	-3500	0.61	-3000	80	10.0
H6614-70	$\phi$ 60.0	51 (2)	R5924-70	—	300 to 650	16	FM/19	+2300	0.33	+2000	70	9.0
H6559	$\phi$ 83.0	76 (3)	R6091	400K	300 to 650	17	L/12	-2500	0.62	-2000	90	10.5
H6527	$\phi$ 142.0	127 (5)	R1250	400K	300 to 650	18	L/14	-3000	1.02	-2000	70	9.0
H6528	$\phi$ 142.0	127 (5)	R1584	400U	185 to 650	18	L/14	-3000	1.02	-2000	70	9.0
H9530-20	$\square$ 35 $\times$ 16	—	—	—	300 to 920	19	MC/12	-1200	0.42	-1000	500	—
H8711	$\square$ 30	—	R7600-00-M16	—	300 to 650	20	MC/12	-1000	0.35	-800	80	9.5
H8711-20	$\square$ 30	—	R7600-20-M16	—	300 to 920	20	MC/12	-1000	0.35	-800	500	—
H7546B	$\square$ 30	—	R7600-00-M64	—	300 to 650	21	MC/12	-1000	0.45	-800	80	9.5
H7546B-20	$\square$ 30	—	R7600-20-M64	—	300 to 920	21	MC/12	-1000	0.45	-800	500	—
H7260-20	$\square$ 52 $\times$ 24	—	R7259-20	—	300 to 920	22	MC/10	-900	0.37	-800	500	—
H8500C	$\square$ 52	—	R10551-00-M64	—	300 to 650	23	MC/12	-1100	0.173	-1000	60	9.5
H9500	$\square$ 52	—	R8400-00-M256	—	300 to 650	24	MC/12	-1100	0.18	-1000	60	9.5
H10966A	$\square$ 52	—	R10552-00-M64	—	300 to 650	25	MC/8	-1100	0.245	-1000	60	9.5
H10515B-20	$\square$ 30	—	R5900U-20-L16	—	300 to 920	26	MC/10	-900	0.37	-800	500	—

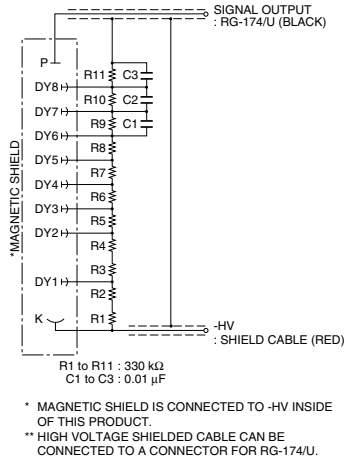
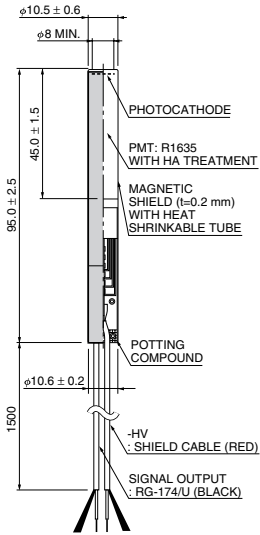
CAUTION: Photomultiplier tube assemblies listed in this catalog are not designed for use in a vacuum, please consult our sales office. When using them in a vacuum or under low pressure conditions, please consult us.

### Anode Characteristics

Luminous	Gain	Dark Current		Time Response			Pulse Linearity		Notes	Type No.
		Typ. (nA)	Max. (nA)	Rise Time Typ. (ns)	Transit Time Typ. (ns)	Transit Time Spread Typ. (ns)	2 % Typ. (mA)	5 % Typ. (mA)		
100	$1.0 \times 10^6$	1	50	0.8	9.0	0.5	3	7	H3164-11 (with 50 $\Omega$ )	H3164-10
100	$1.0 \times 10^6$	2	50	0.7	9.0	0.5	3	7	H3695-11 (with 50 $\Omega$ )	H3695-10
150	$1.4 \times 10^6$	1	2	2.1	22	2.0	3	7	H3165-11 (with 50 $\Omega$ )	H3165-10
110	$1.0 \times 10^6$	1	5	2.5	27	2.8	4	7	H6520-01 (with 50 $\Omega$ )	H6520
200	$1.7 \times 10^6$	3	50	1.8	19	0.76	4	8	H6524-01 (with 50 $\Omega$ )	H6524
200	$1.7 \times 10^6$	10	300	1.3	14	0.36	4	8	H6612-01 (with 50 $\Omega$ )	H6612
40	$5.0 \times 10^5$	5	30	1.5	5.6	0.35	180	250		H6152-70
400	$5.7 \times 10^6$	100	800	0.7	10	0.16	40	70	H6610 (R5320)	H6533
475	$5.0 \times 10^6$	10	200	1.7	16	0.5	10	30	H7415-01 (with 50 $\Omega$ ) H7416 (R7056)	H7415
75	$7.9 \times 10^5$	2	15	2.7	40	4.5	150	200		H3178-51
800	$1.0 \times 10^7$	15	100	2.1	7.5	0.35	350	500		H8409-70
1800	$1.0 \times 10^7$	50	400	1.3	28	0.55	100	200	H3177-51 (R2059)	H1949-51
270	$3.0 \times 10^6$	10	100	2.7	40	1.1	100	200	H6521 (R2256) H6522 (R5113)	H6410
270	$3.0 \times 10^6$	10	100	2.7	40	1.1	80	110		H7195
200	$2.5 \times 10^6$	100	800	0.7	16	0.37	100	150	H3378-50 (R3377)	H2431-50
700	$1.0 \times 10^7$	30	200	2.5	9.5	0.44	500	700		H6614-70
900	$1.0 \times 10^7$	30	120	2.7	40	1.5	80	110		H6559
1000	$1.4 \times 10^7$	50	300	2.5	54	1.2	100	150		H6527
1000	$1.4 \times 10^7$	50	300	2.5	54	1.2	100	150		H6528
1500	$3.0 \times 10^6$	1/ch	10/ch	0.7	6.0	0.25	0.9/ch	1/ch	8 Linearanode	H9530-20
280	$3.5 \times 10^6$	0.8/ch	4/ch	0.83	12	0.33	0.5/ch	1/ch	16 Multianode H8711-10 (Taper Divider Type)	H8711
250	$5.0 \times 10^5$	0.8/ch	4/ch	0.83	12	0.33	0.5/ch	1/ch		H8711-20
24	$3.0 \times 10^5$	0.2/ch	2/ch	1.0	12	0.38	0.3/ch	0.6/ch	64 Multianode	H7546B
25	$5.0 \times 10^4$	0.2/ch	2/ch	1.0	12	0.38	0.3/ch	0.6/ch		H7546B-20
500	$1.0 \times 10^6$	1/ch	10/ch	0.6	6.8	0.18	0.6/ch	0.8/ch	32 Linearanode H7260A-20 (-HV Cable Input Type)	H7260-20
90	$1.5 \times 10^6$	0.1/ch	—	0.8	6.0	0.4	1/ch	2/ch	H8500C-03 (UV Grass Type) H8500D (HV Pin Input Type)	H8500C
90	$1.5 \times 10^6$	0.05/ch	—	0.8	6.0	0.4	0.2/ch	0.5/ch	H9500-03 (UV Grass Type)	H9500
20	$3.3 \times 10^5$	0.1/ch	—	0.4	4.0	—	1.2/ch	3/ch	H10966B (HV Pin Input Type)	H10966A
500	$1.0 \times 10^6$	1/ch	10/ch	0.6	7.4	0.18	0.8/ch	1/ch	16 Linearanode	H10515B-20

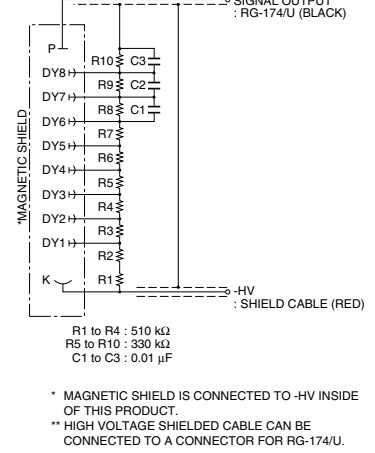
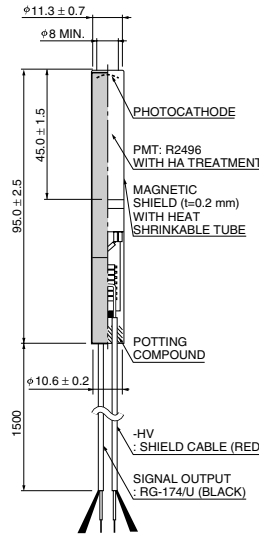
# Photomultiplier Tube Assemblies Dimensional Outlines and Diagrams (Unit: mm)

## 1 H3164-10



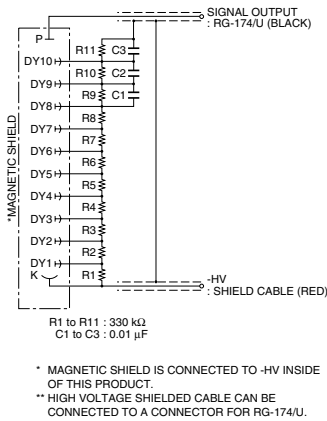
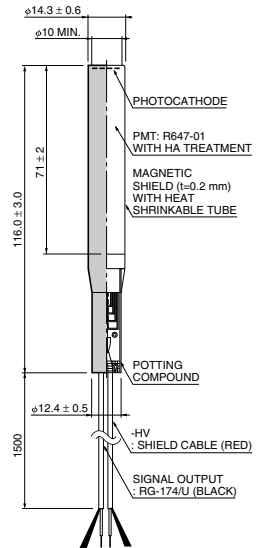
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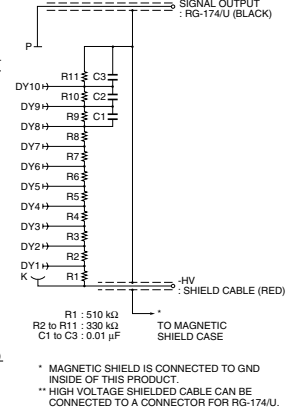
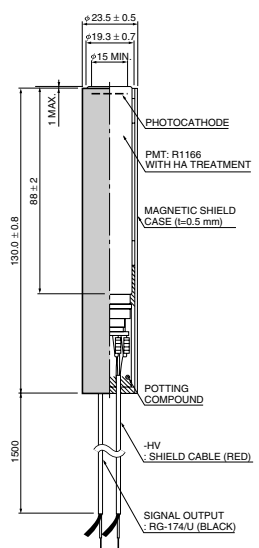
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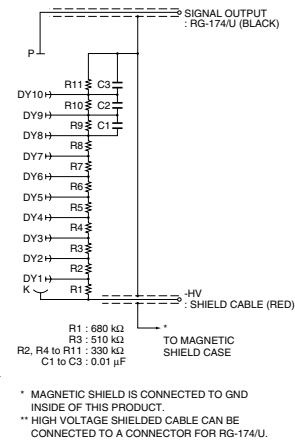
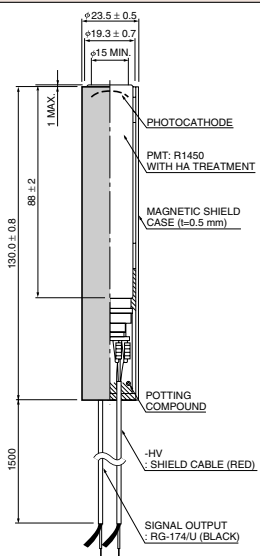
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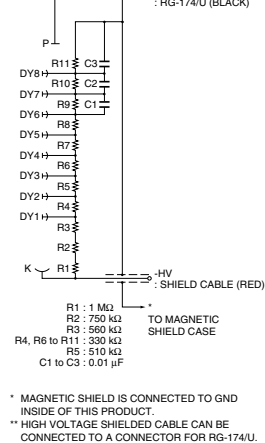
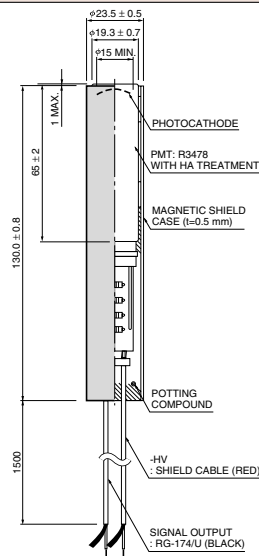
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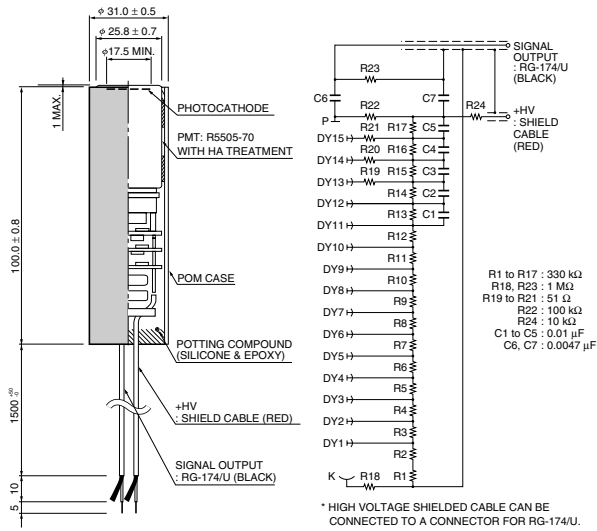
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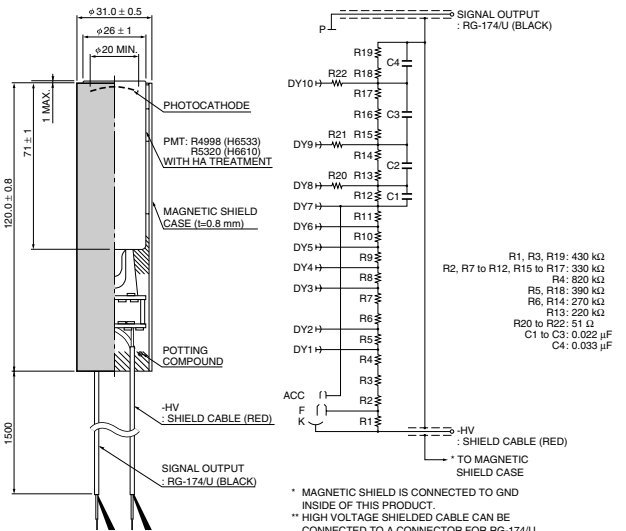
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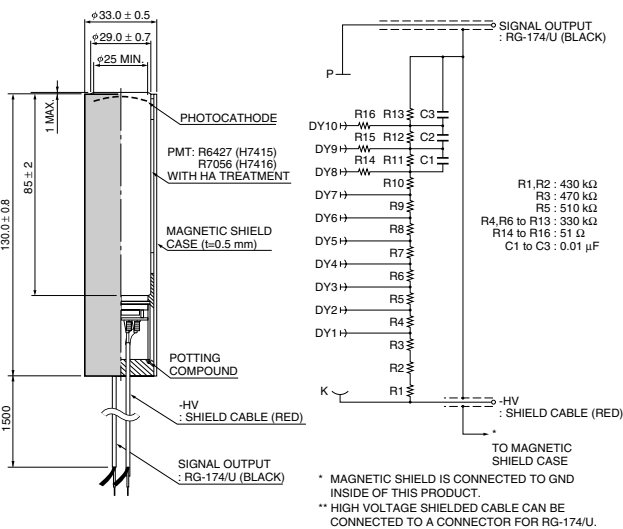
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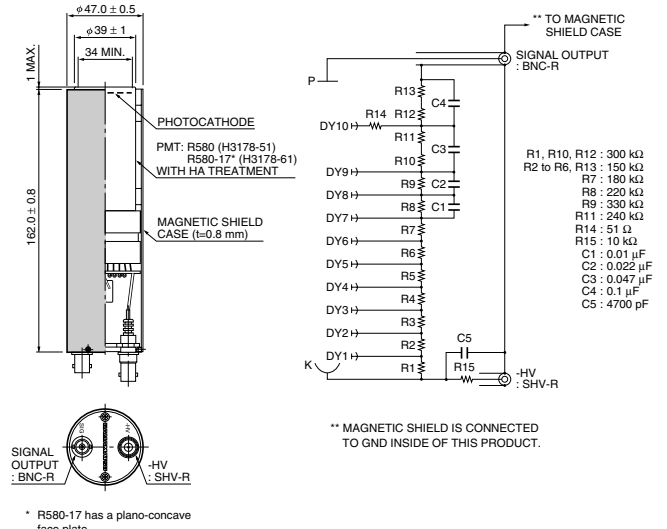
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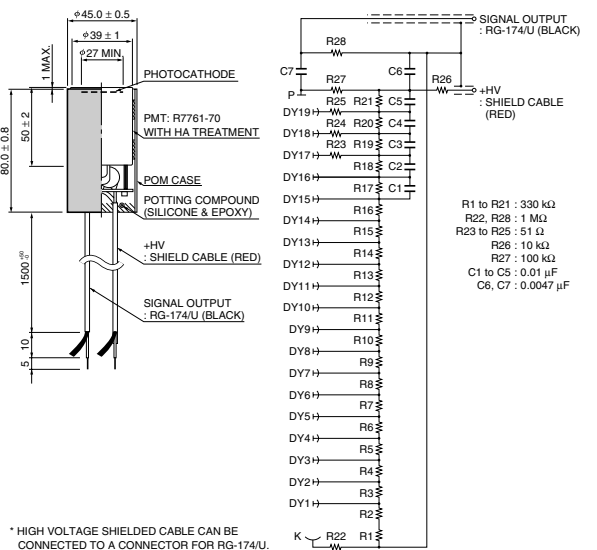
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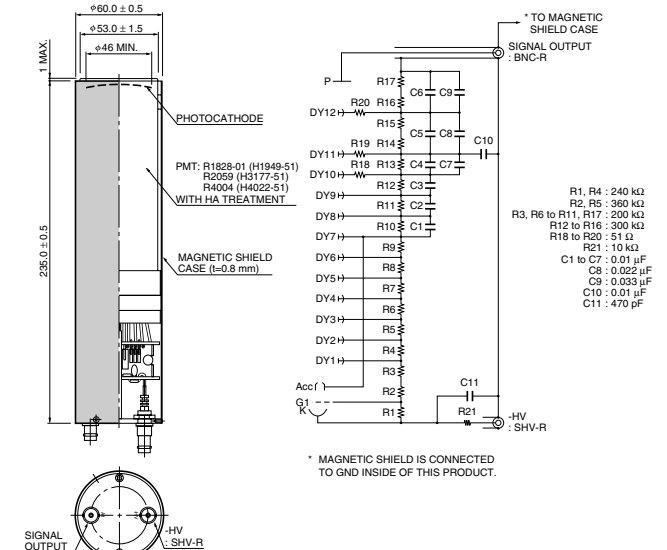
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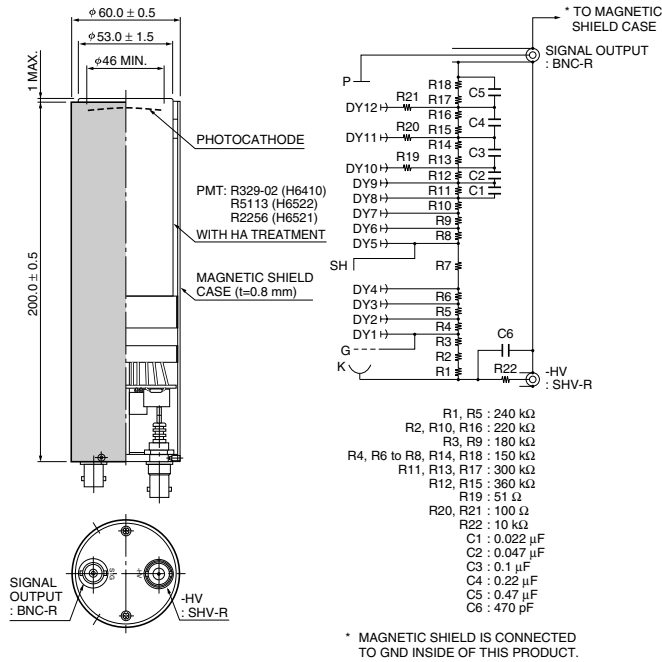
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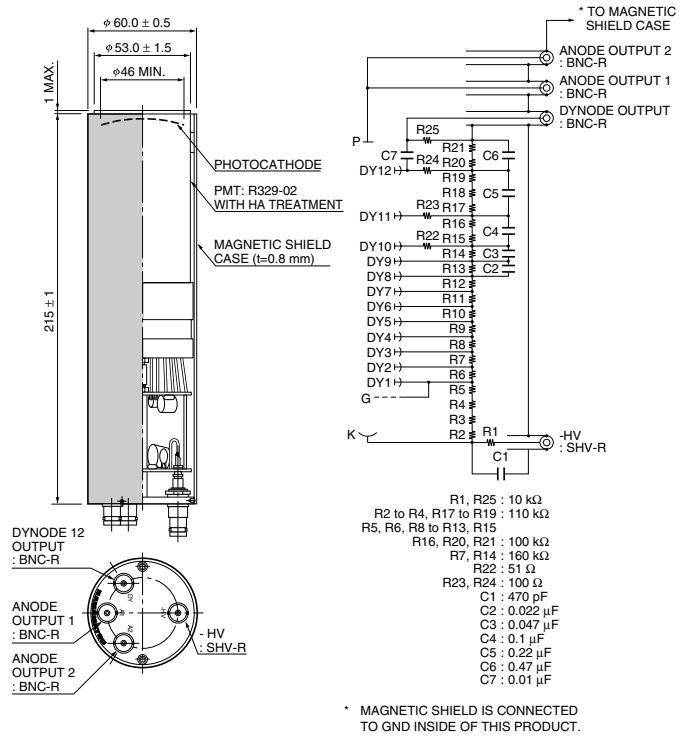
# Photomultiplier Tube Assemblies Dimensional Outlines and Diagrams (Unit: mm)

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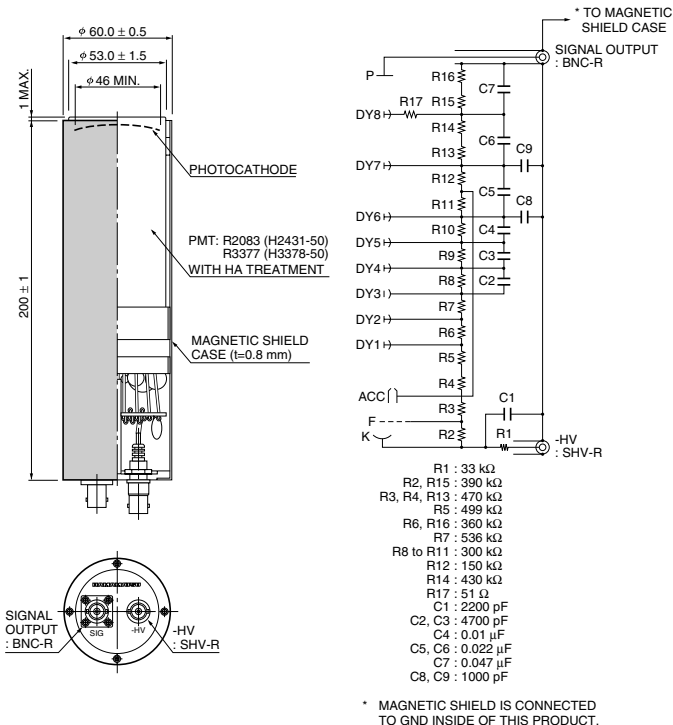
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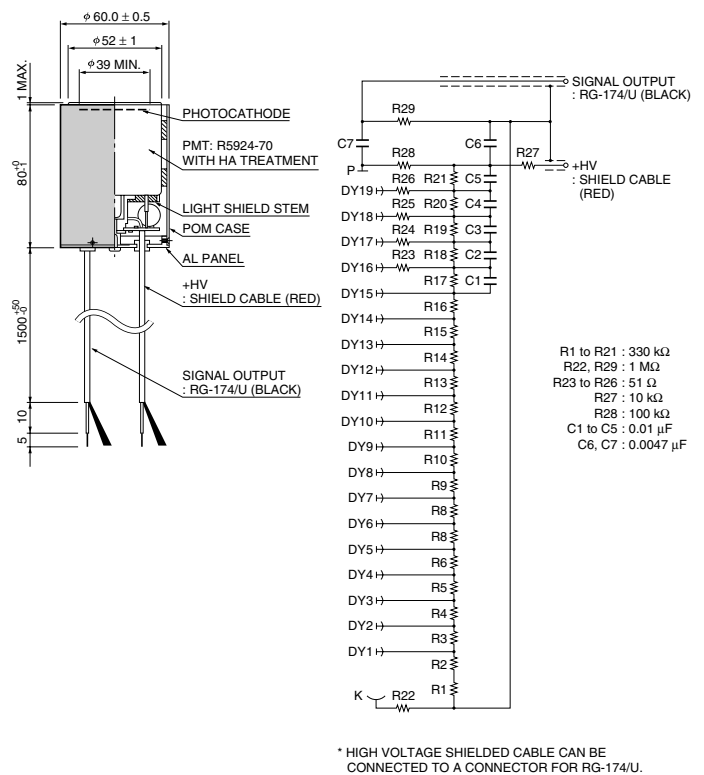
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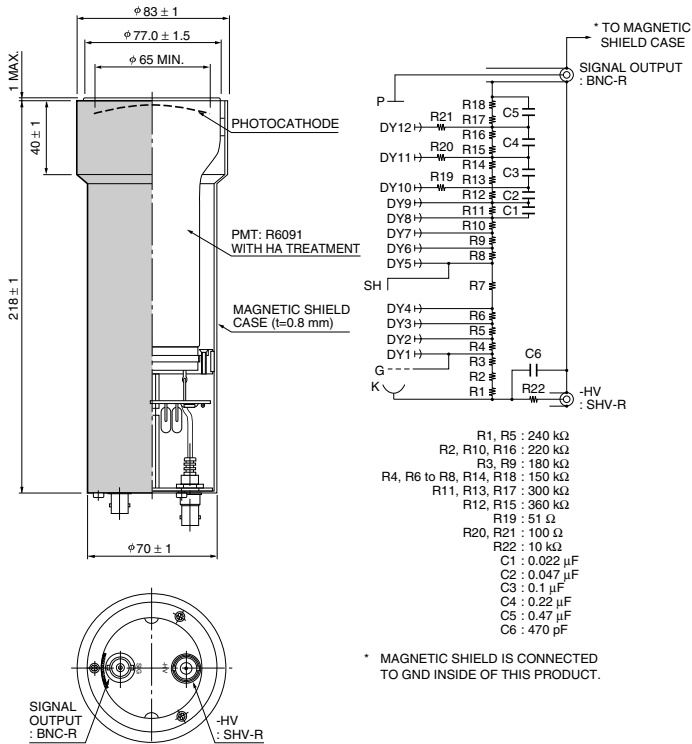
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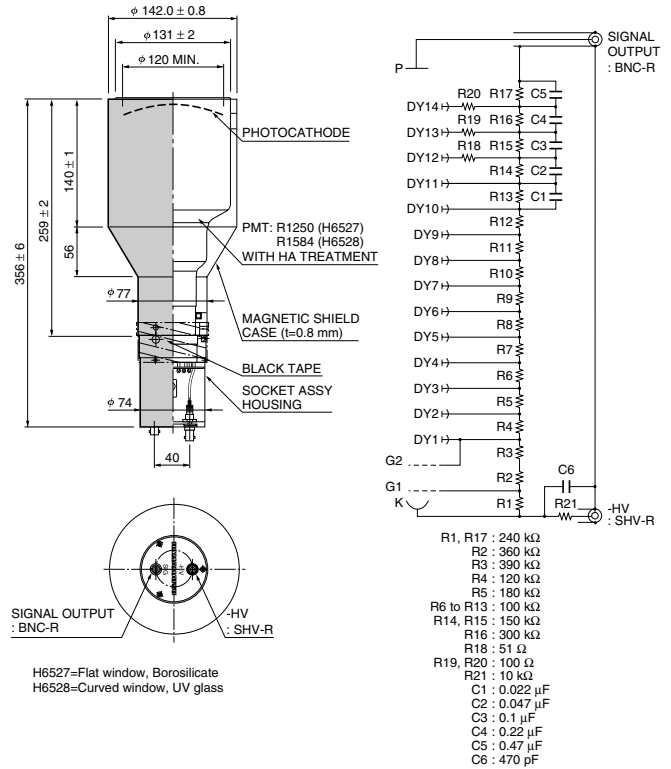
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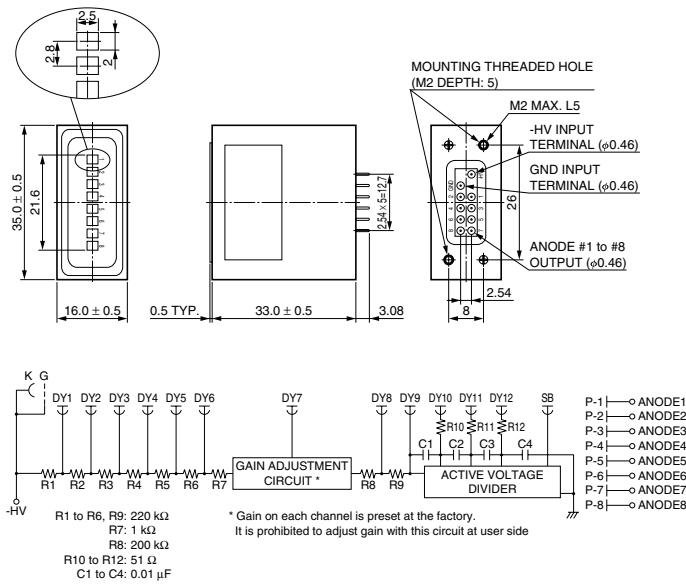
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### 18 H6527, H6528



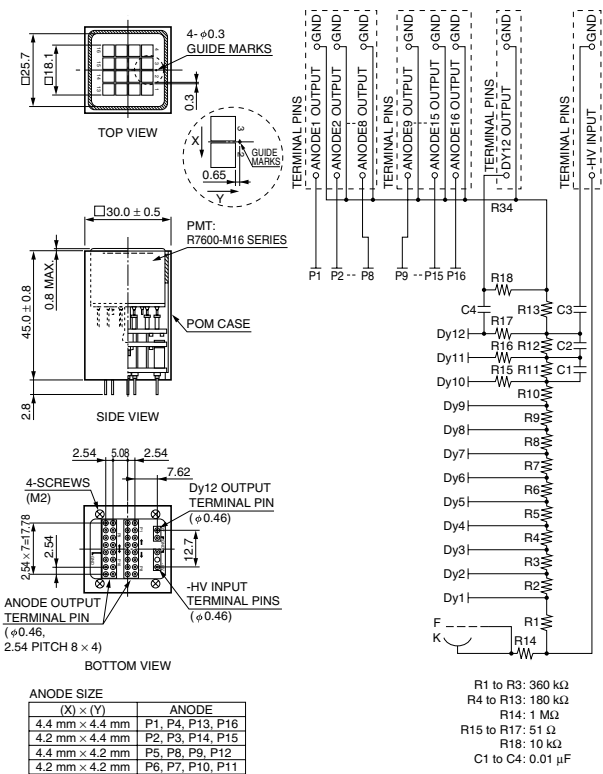
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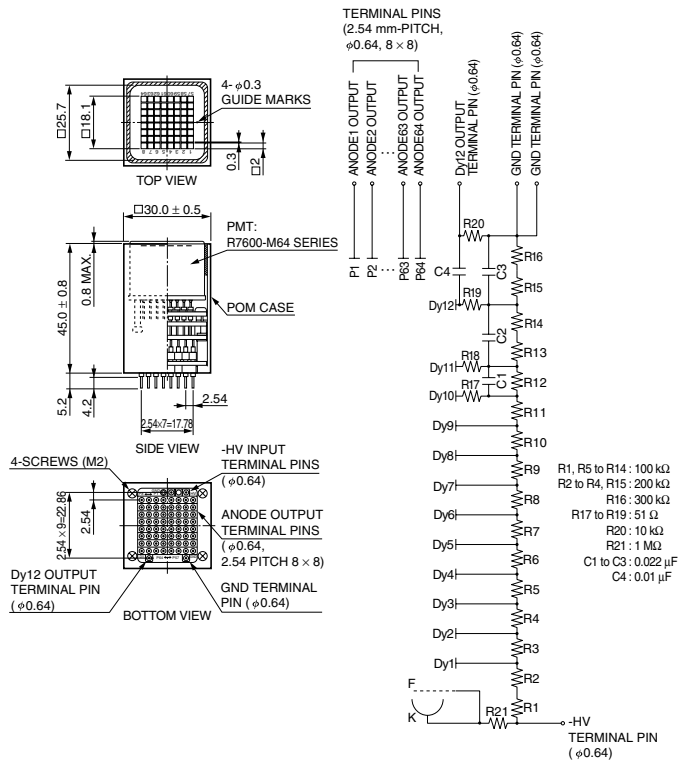
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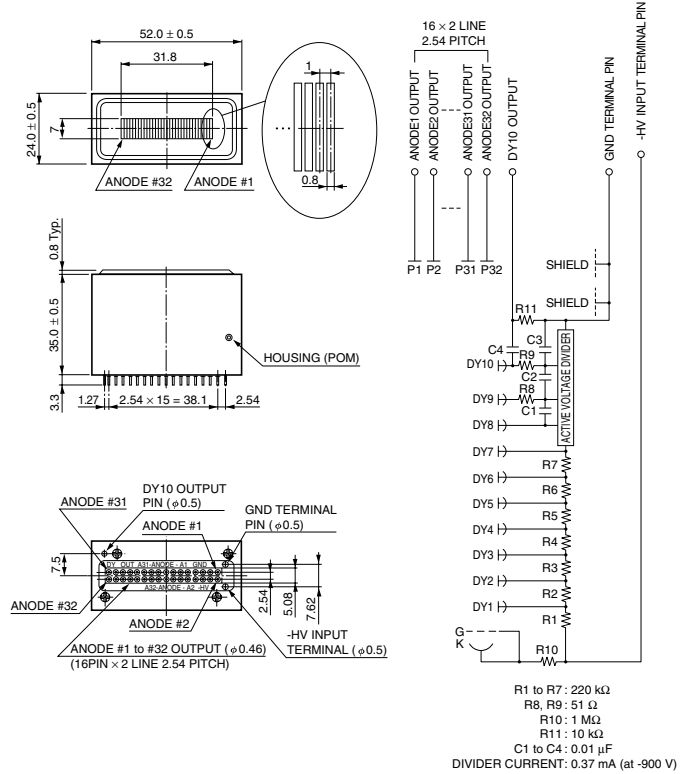
# Photomultiplier Tube Assemblies Dimensional Outlines and Diagrams (Unit: mm)

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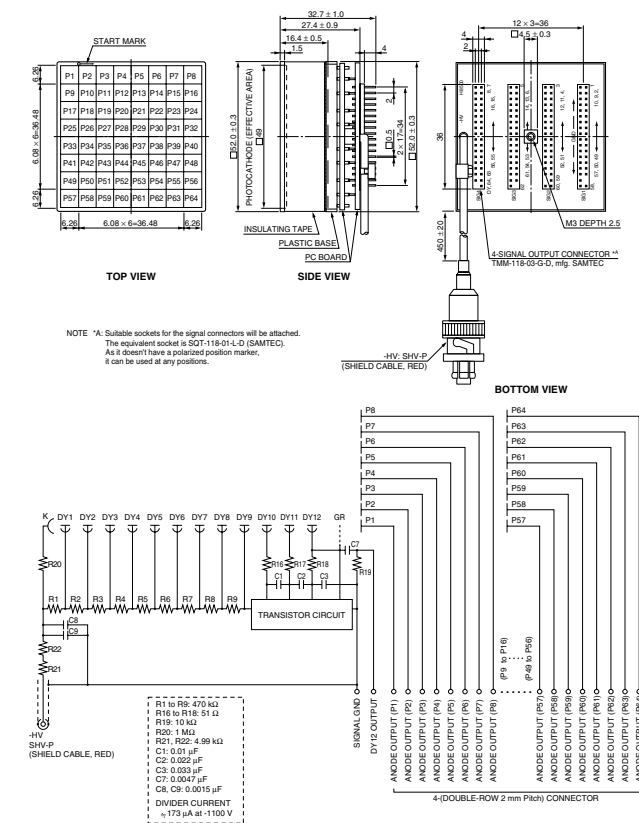
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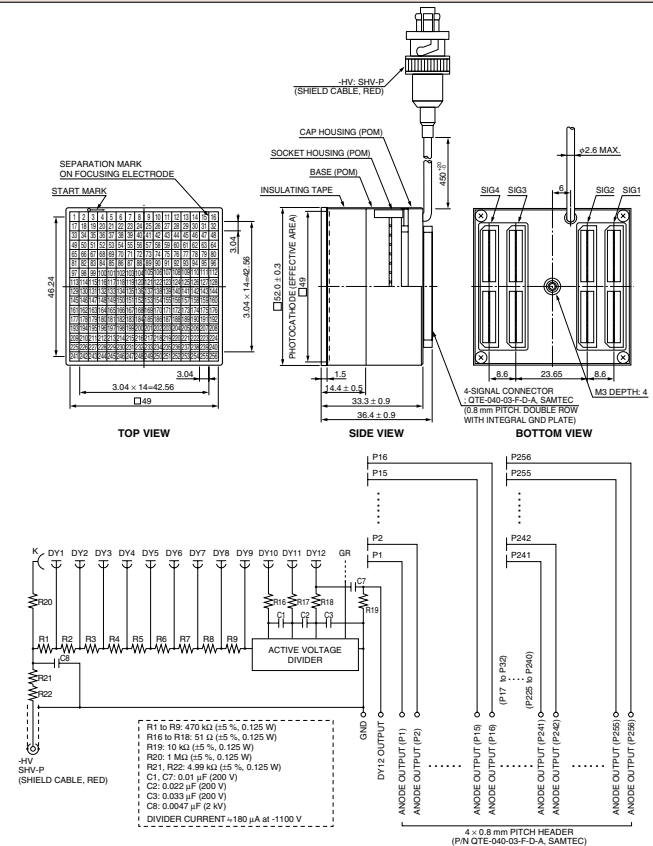
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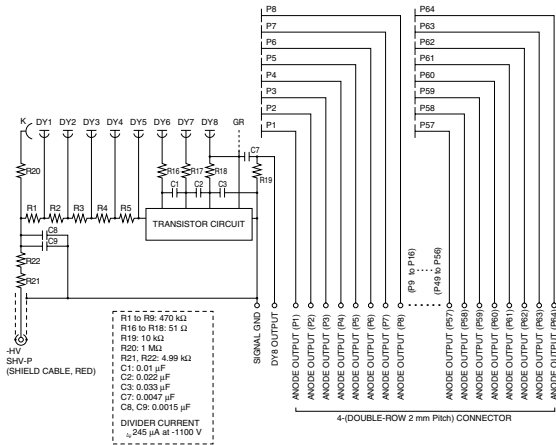
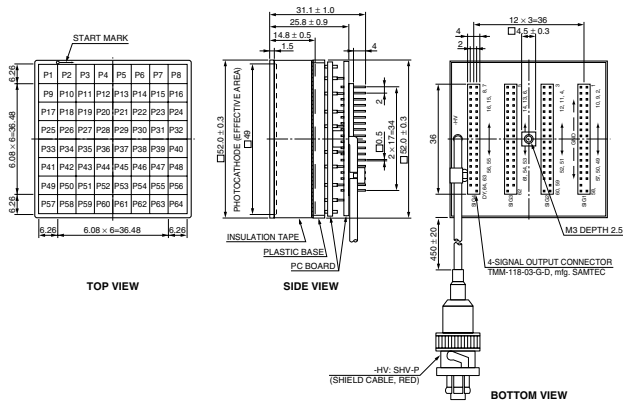
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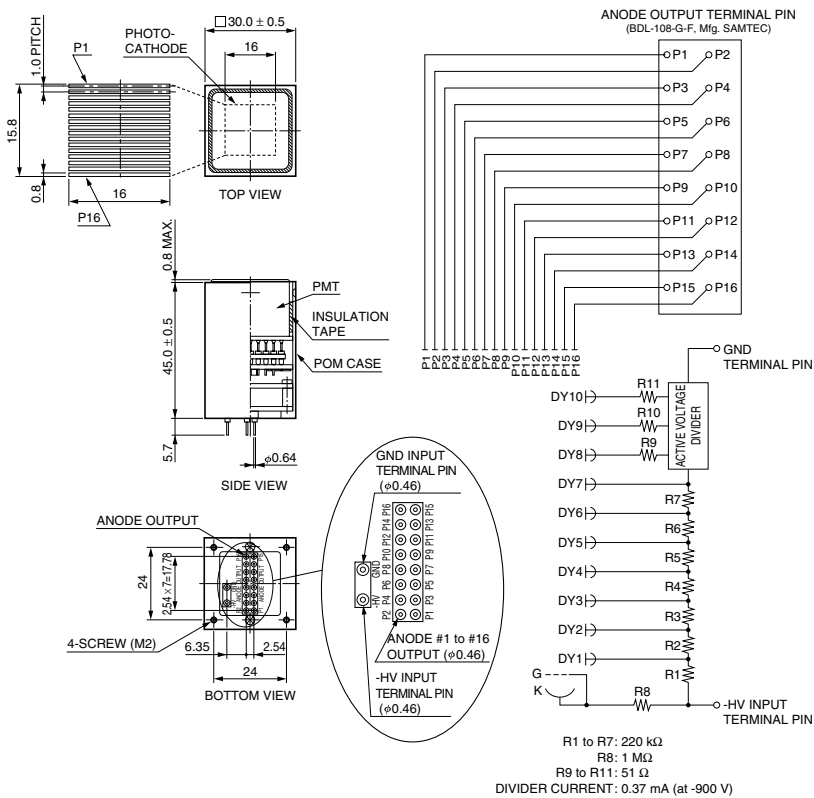


25 H10966A



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26 H10515B-20



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