

Photo-Multiplier Tubes

Applications

Stellar observations
Star tracking
Laser detection
Vibration analysis
Scintillation counting

Tubes photo-multiplicateurs

Applications

Observations stellaires
Examen de la trajectoire d'étoiles
Détection laser
Analyse de vibrations
Comptage de scintillations

Photovervielfacher

Anwendungen

Beobachtung von Sternen
Bahnverfolgung bei Sternen
Empfang von Laserlicht
Schwingungsanalyse
Zählung von Szintillationsblitzen

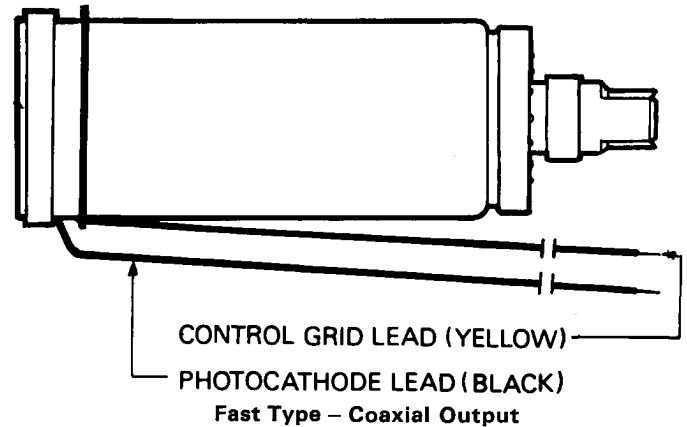
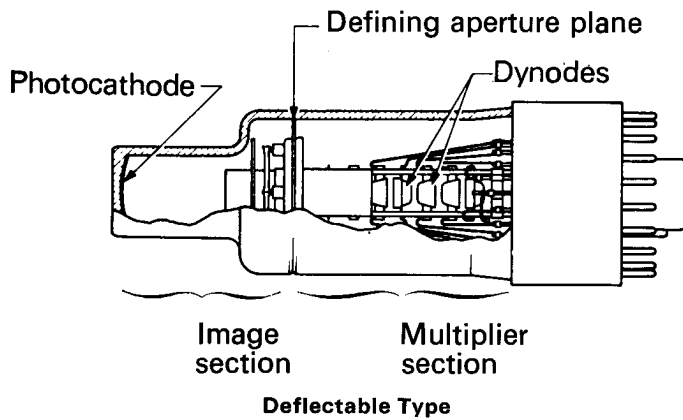


Photo-Multipliers

Type	Standard I.E.P.D.*	Special features†	Spectral response‡	Typical V_{a-k} (kV)	I_a max. av. (mA)	pk (mA)	Rise time (s)	Luminous sensitivity cathode ($\mu A/lm$)	Luminous sensitivity anode (A/lm)	Luminous equivalent of Noise input (max.) (lm)	I_a dark (max.) (lm)
FW118	100R	19 mm low noise deflectable	{ S1 S11 S20	1,8	0,1	0,5	16×10^{-9}	20	200	10^{-10}	5×10^{-8}
FW129	100R			1,8	0,1	0,5	16×10^{-9}	65	650	10^{-12}	2×10^{-9}
FW130	100R			1,8	0,1	0,5	16×10^{-9}	150	800	5×10^{-13}	$1,8 \times 10^{-11}$
FW136	100R	19 mm ruggedised low noise deflectable	{ S11 S1 S20	1,8	0,1	0,5	16×10^{-9}	65	650	10^{-12}	2×10^{-9}
FW142	100R			1,8	0,1	0,5	16×10^{-9}	20	200	10^{-10}	5×10^{-8}
FW143	100R			1,8	0,1	0,5	16×10^{-9}	150	800	5×10^{-13}	$1,8 \times 10^{-11}$
F4004 (S1)	100R	19 mm short ruggedised low noise, deflectable	{ S1 S11 S20	1,8	0,1	0,5	16×10^{-9}	20	200	10^{-10}	5×10^{-8}
F4004 (S11)	100R			1,8	0,1	0,5	16×10^{-9}	40	200	10^{-12}	10^{-11}
F4004 (S20)	100R			1,8	0,1	0,5	16×10^{-9}	100	200	10^{-12}	10^{-11}
F4013		19 mm broad band	S20+UV	1,8	0,1	0,5	16×10^{-9}	100	200	$3,5 \times 10^{-13}$	5×10^{-11}
Similar to FW130 but with choice of input window material: sapphire, quartz, L _i F or 9741 glass.											
F4027 (S1)	100R	19 mm grid-control low noise deflectable	{ S1 S11 S20	1,8	0,3	0,5	16×10^{-9}	20	50	10^{-10}	5×10^{-8}
F4027 (S11)	100R			1,8	0,3	0,5	16×10^{-9}	40	200	10^{-12}	10^{-11}
F4027 (S20)	100R			1,8	0,3	0,5	16×10^{-9}	100	200	10^{-12}	10^{-11}
F4034 (S1)	100R	19 mm low noise deflectable fast response 50 Ω coax output	{ S1 S11 S20	5	2	1 000	8×10^{-10}	20	2	—	—
F4034 (S11)	100R			5	2	1 000	8×10^{-10}	50	5	—	—
F4034 (S20)	100R			5	2	1 000	8×10^{-10}	150	15	—	—
F4084		38 mm grid-controlled Fast - 50 Ω output	S20	5	2	200	15×10^{-10}	175	1,5 (approx.)	—	—
F4085	100R	19 mm deflectable Custom designed electron optics	S20	1,7	0,3	0,5		120	120	10^{-12}	5×10^{-11}
F4099	500R	19 mm low noise ruggedised	S20	1,7	3 μ	5 μ		200	2	2×10^{-11}	5×10^{-10} (typical)
F4102		38 mm ultra-fast 50 Ω coax output	S20	5	2	200	5×10^{-10}	175	1,8 (approx.)	—	—

* '100R' denotes 0,1 inch Instantaneous Effective Photocathode Diameter which corresponds to 0,07 inch diameter aperture in

electron image focal plane: the demagnification of the imaging section is typically 0,7. Other I.E.P.D.'s can be supplied as 'specials'.

† Dimension refers to useful photocathode diameter.

‡ See Figure 3.