

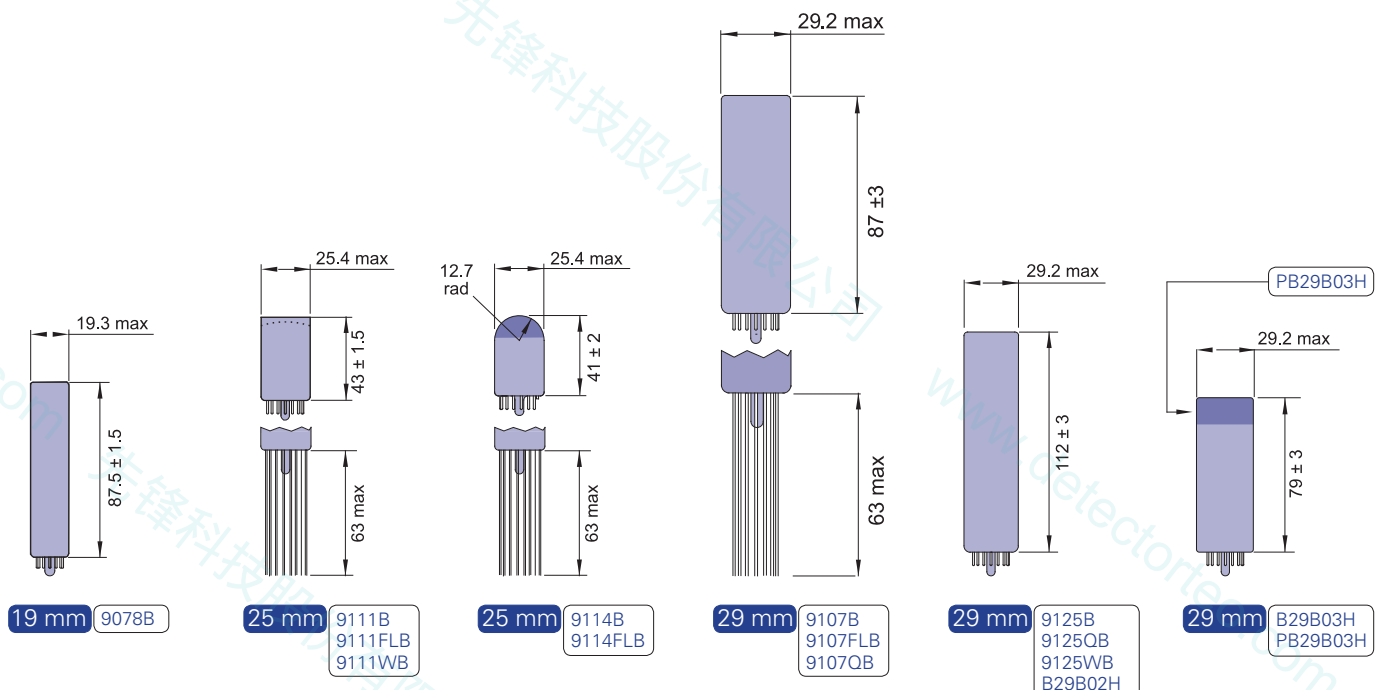
Blue-green sensitive bialkali 19 to 29mm ($\frac{3}{4}$ " to $1\frac{1}{8}$ ") diameter

type	Characteristics				Photocathode sensitivity						Photomultiplier performance						
	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain $\times 10^6$	dark current typical nA	dark current max nA	dark rate typical s^{-1}
9078B	19	15	10 LF	SbCs	28	B - c	65	9	11	1	50	800	1200	0.8	0.05	1	50
9111B	25	22	10 CF	SbCs	28	B - c	70	7	11	2	50	800	1300	0.7	0.3	1	100
9111FLB	25	22	10 CF	SbCs	28	B - c	70	7	11	2	50	800	1300	0.7	0.3	1	100
9111WB	25	22	10 CF	SbCs	28	W - c	70	7	11	2	50	800	1300	0.7	0.3	1	100
9114B	25	22	10 CF	SbCs	28	B - c	70	7	11	2	50	800	1300	0.7	0.3	1	100
9114FLB	25	22	10 CF	SbCs	28	B - c	70	7	11	2	50	800	1300	0.7	0.3	1	100
9107B	29	25	11 LF	SbCs	28	B - c	65	7	11	1	200	850	1150	3	0.2	5	100
9107FLB	29	25	11 LF	SbCs	28	B - c	65	7	11	1	200	850	1150	3	0.2	5	100
9107QB	29	25	11 LF	SbCs	28	Q - c	65	7	11	1	200	850	1150	3	0.2	5	100
9125B	29	25	11 LF	SbCs	28	B - c	65	7	11	1	200	850	1150	3	0.2	5	100
9125QB	29	25	11 LF	SbCs	28	Q - c	65	7	11	1	200	850	1150	3	0.2	5	100
9125WB	29	25	11 LF	SbCs	28	W - c	65	7	11	1	200	850	1150	3	0.2	5	100
B29B02H	29	25	11 BG	SbCs	25	B - c	50	5	9.5	1	200	800	1100	4	0.2	5	200
B29B03H	29	25	11 BG	SbCs	25	B - c	50	5	9.5	1	200	800	1100	4	0.2	5	200
B29B06H	29	25	9 BG	SbCs	25	B - c	50	5	9.5	1	50	800	1000	1	0.05	2	200
PB29B02H	29	25	11 BG	SbCs	25	B - c	50	5	9.5	1	200	800	1100	4	0.2	5	200
9780B	side window	8 x 24	9 CF	SbCs	22	W - a	50	5	9	2	50	750	1200	1	0.1	20	-
9781B	side window	8 x 24	9 CF	SbCs	25	W - a	75	5	10	5	50	650	800	0.7	0.2	5	-
9783B	side window	8 x 24	9 CF	SbCs	25	Q - a	75	5	10	5	50	650	800	0.7	0.5	5	-

Comprehensive data sheets for all of the above types are available on request, or can be downloaded from www.detectorlab.com

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)

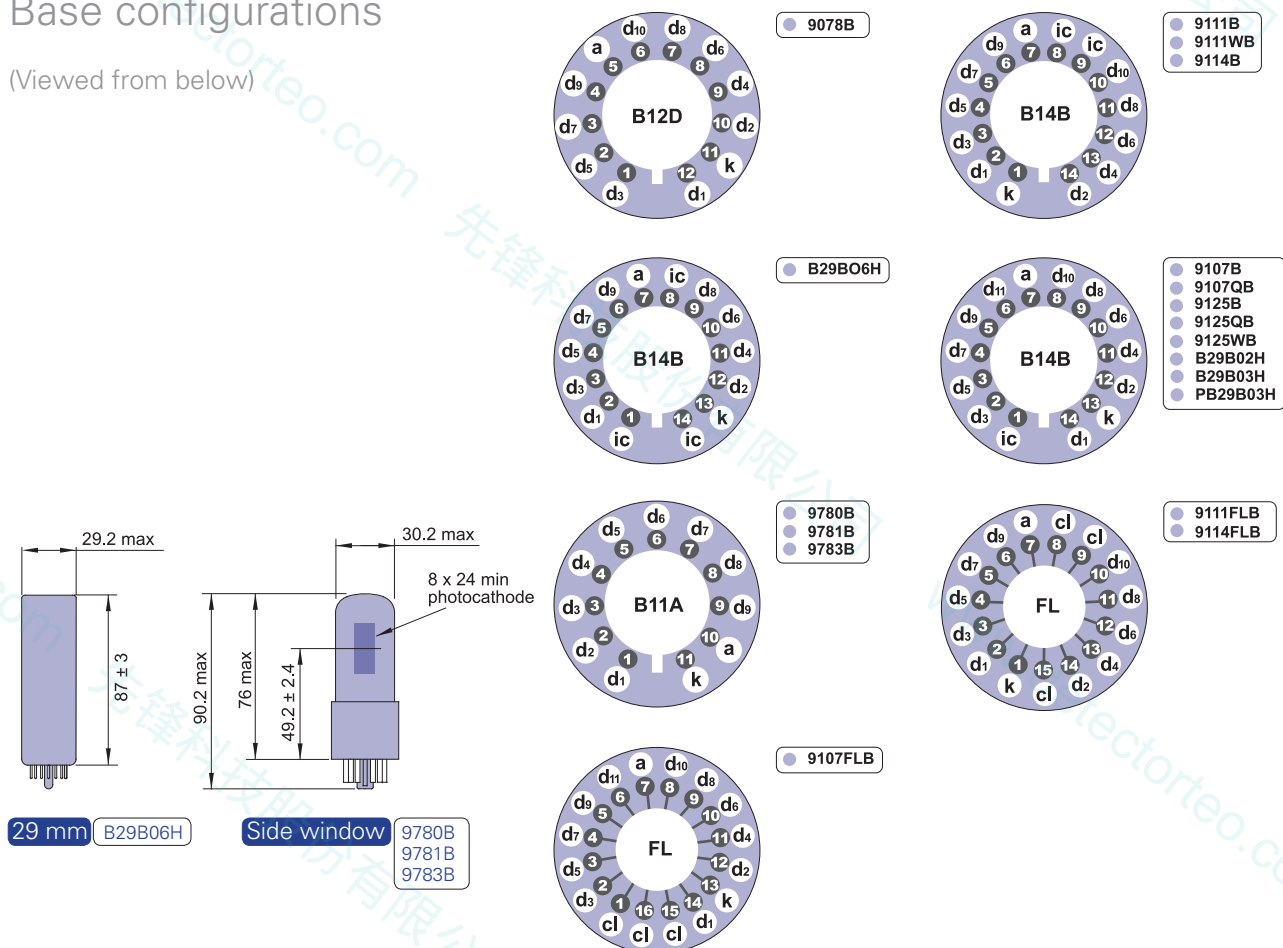


max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Accessories			
					Socket	Shield	Voltage divider series	
							passive	active
200	1.8	2.7	9078B	fast, high gain, good overall performance.	B12D	MS19A	C669	C669
500	1.8	3.1	9111B	compact type, short length and fast response time.	B14B	MS25A	C673	C6002
500	1.8	3.1	9111FLB	variant of 9111B with flexible leads.	FL	MS25A	C651	C6002
500	1.8	3.1	9111WB	variant of 9111B with UV sensitivity to 185nm.	B14B	MS25A	C673	C6002
500	1.8	3.1	9114B	variant of 9111B, hemispherical window for wide angle light detection.	B14B	-	C673	C6002
500	1.8	3.1	9114FLB	variant of 9114B with flexible leads.	FL	-	C651	C6002
2000	4.5	7.5	9107B	variant of 9125B with shorter length (87 mm).	B14B	MS30A	C637	C686
2000	4.5	7.5	9107FLB	variant of 9107B with flexible leads.	FL	MS30A	C637	C686
2000	4.5	7.5	9107QB	variant of 9107B with UV sensitivity to 165nm.	B14B	MS30A	C637	C686
2000	4.5	7.5	9125B	high performance parent type.	B14B	MS30B	C637	C686
2000	4.5	7.5	9125QB	variant of 9125B with UV sensitivity to 165nm.	B14B	MS30B	C637	C686
2000	4.5	7.5	9125WB	variant of 9125B with UV sensitivity to 185nm.	B14B	MS30B	C637	C686
2000	15	30	B29B02H	general purpose, good overall performance.	B14B	MS30B	C637	C686
2000	15	30	B29B03H	variant of B29B02H with shorter length (79 mm).	B14B	MS30A	C637	C686
200	15	30	B29B06H	variant of B29B02H for higher light levels, shorter length (87 mm).	B14B	MS30A	C615	-
2000	15	30	PB29B03H	variant of B29B03H with sidewall sensitivity.	B14B	MS30A	C637	C686
500	2	4	9780B	variant of 9781B, replaces 931A, IP21 and IP28.	B11A	MSSW	C639A	-
500	2	4	9781B	good overall performance, can be selected for high CR.	B11A	MSSW	C639A	-
500	2	4	9783B	variant of 9781B, with UV sensitivity to 165 nm.	B11A	MSSW	C639A	-

aded from www.et-enterprises.com

Base configurations

(Viewed from below)



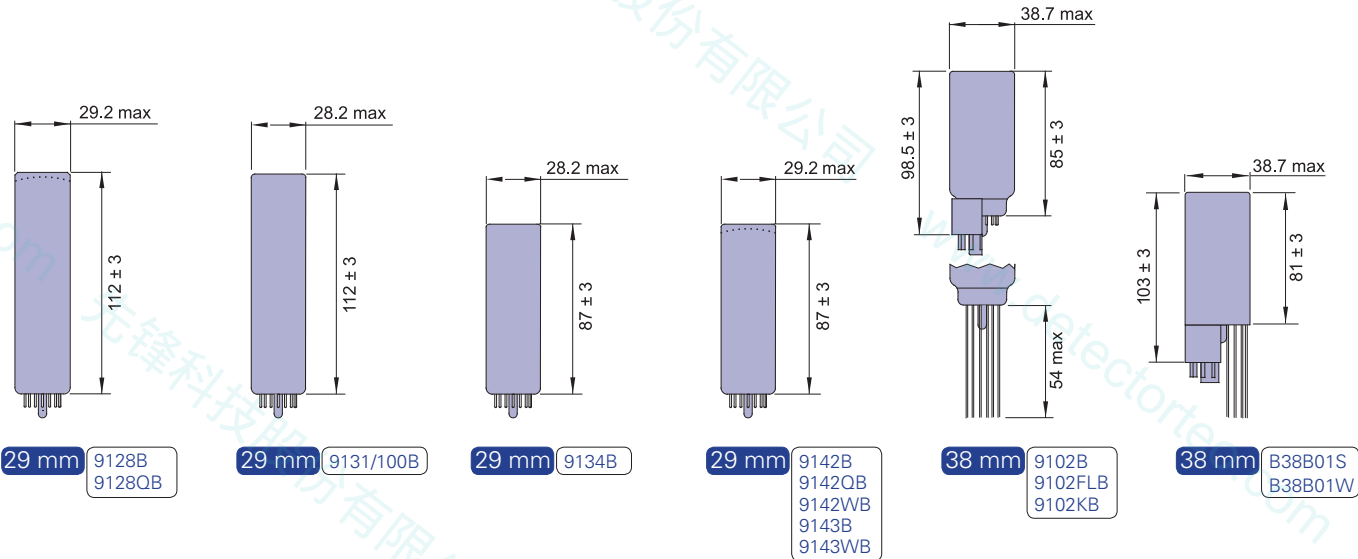
blue-green sensitive bialkali 29 and 38mm (1⅛" and 1½") diameter

Characteristics					Photocathode sensitivity						Photomultiplier performance						
type	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain X10 ⁶	dark current typical nA	dark current max nA	dark rate typical s ⁻¹
9128B	29	25	11 LF	BeCu	28	B - c	65	7	11	1	200	1400	1650	3	0.2	5	100
9128QB	29	25	11 LF	BeCu	28	Q - c	65	7	11	1	200	1400	1650	3	0.2	5	100
9131/100B	29	2.5	11 LF	BeCu	25	B - c	60	6	10	2	200	1600	1800	3	0.03	0.5	10
9134B	29	25	9 LF	SbCs	28	B - c	65	7	11	2	50	900	1100	0.8	0.05	2	-
9142B	29	25	10 LF	SbCs	28	B - c	65	7	11	1	50	850	1200	0.8	0.1	1	100
9142QB	29	25	10 LF	SbCs	28	Q - c	65	7	11	1	50	850	1200	0.8	0.1	1	100
9142WB	29	25	10 LF	SbCs	28	W - c	65	7	11	1	50	850	1200	0.8	0.1	1	100
9143B	29	25	11 LF	SbCs	28	B - c	65	7	11	1	200	850	1200	3	0.2	5	100
9143WB	29	25	11 LF	SbCs	28	W - c	65	7	11	1	200	850	1200	3	0.2	5	100
9102B	38	32	10 LF	SbCs	30	B - c	90	8	12.5	4	20	700	900	0.2	0.05	1	200
9102FLB	38	32	10 LF	SbCs	30	B - c	90	8	12.5	4	20	700	900	0.2	0.05	1	200
9102KB	38	32	10 LF	SbCs	30	B - c	90	8	12.5	4	20	700	900	0.2	0.05	1	200
B38B01S	38	32	10 BG	SbCs	25	B - c	60	5	10	1	20	650	800	0.3	1	5	300
B38B01W	38	32	10 BG	SbCs	25	B - c	60	5	10	1	20	650	800	0.3	1	5	300

Comprehensive data sheets for all of the above types are available on request, or can be downloaded

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)

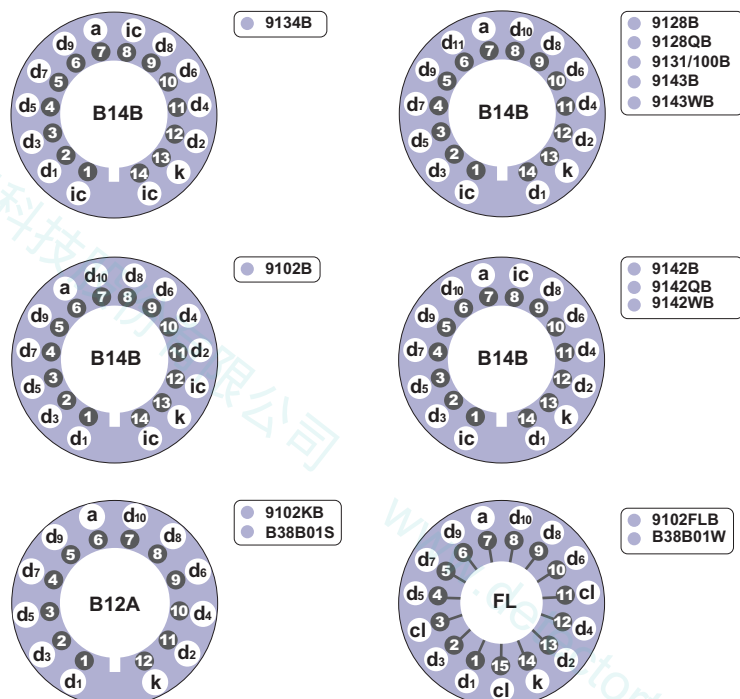


max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Accessories			
					Socket	Shield	Voltage divider series	
							passive	active
2000	3.5	5	9128B	variant of 9125, fast response, high peak current linearity.	B14B	MS30B	C637	C686
2000	3.5	5	9128QB	variant of 9128B with UV sensitivity to 165nm.	B14B	MS30B	C637	C686
2000	3.5	5	9131/100B	variant of 9125B, 2.5 mm effective diameter, low dark count and afterpulse rate.	B14B	MS30B	C637	C686
200	4.5	7.5	9134B	variant of 9125B, lower gain for higher light level applications.	B14B	MS30A	C615	-
500	1.5	2.1	9142B	ultra fast, linear focused 10 stage pmt.	B14B	MS30A	C620	-
500	1.5	2.1	9142QB	variant of 9142B with UV sensitivity to 165nm.	B14B	MS30A	C620	-
500	1.5	2.1	9142WB	variant of 9142B with UV sensitivity to 185nm.	B14B	MS30A	C620	-
2000	1.6	2.2	9143B	ultra fast, linear focused 11 stage pmt.	B14B	MS30A	C637	-
2000	1.6	2.2	9143WB	variant of 9143B with UV sensitivity to 185nm.	B14B	MS30A	C637	-
500	3	6	9102B	high performance parent type.	B14B	MS38A	C646	C6004
500	3	6	9102FLB	variant of 9102B with flexible leads.	FL	MS38A	C653	C6004
500	3	6	9102KB	variant of 9102B with capped base.	B12A	MS38A	C674	C6004
500	15	30	B38B01S	general purpose, good overall performance, capped base.	B12A	MS38A	C674	C6004
500	15	30	B38B01W	variant of B38B01S with flexible leads.	FL	MS38A	C653	C6004

aded from www.et-enterprises.com

Base configurations

(Viewed from below)



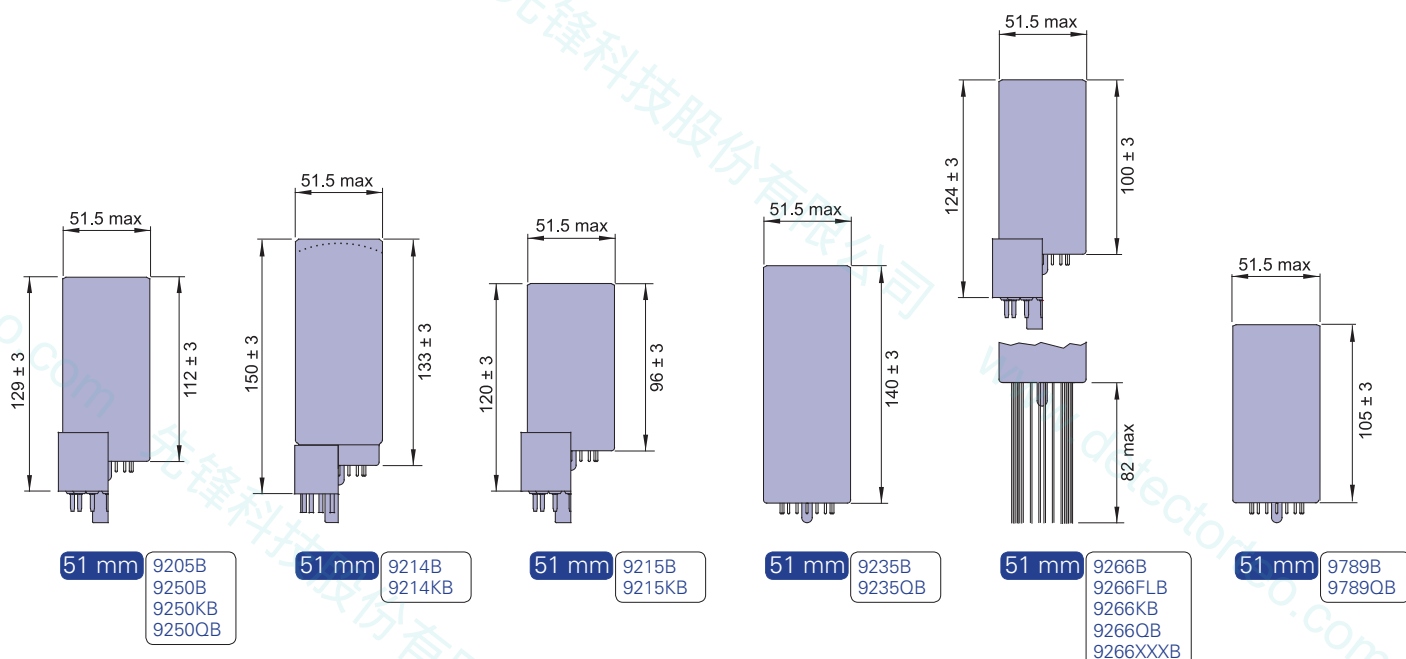
blue-green sensitive bialkali 51mm (2") diameter

type	Characteristics				Photocathode sensitivity						Photomultiplier performance						
	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain X10 ⁶	dark current typical nA	dark current max nA	dark rate typical s ⁻¹
9205B	51	48	10 LF	SbCs	30	B - c	70	8	11.5	2	200	1000	1350	3	0.5	10	300
9214B	51	46	12 LF	SbCs	30	B - c	70	8	11.5	2	500	1250	1800	7	1	10	300
9214KB	51	48	12 LF	SbCs	30	B - c	70	8	11.5	2	500	1250	1800	7	1	10	300
9215B	51	48	8 LF	SbCs	30	B - c	80	9	12.5	2	10	900	1150	0.1	0.01	1	-
9215KB	51	48	8 LF	SbCs	30	B - c	80	9	12.5	2	10	900	1150	0.1	0.01	1	-
9235B	51	48	13 LF	SbCs	30	B - c	80	9	12.5	2	2000	1000	1400	25	6	50	300
9235QB	51	48	13 LF	SbCs	30	Q - c	80	9	12.5	2	2000	1000	1400	25	6	50	300
9250B	51	48	10 LF	SbCs	30	B - c	80	9	12.5	2	50	850	1150	0.6	0.3	1.5	300
9250KB	51	48	10 LF	SbCs	30	B - c	80	9	12.5	2	50	850	1150	0.6	0.3	1.5	300
9250QB	51	48	10 LF	SbCs	30	Q - c	80	9	12.5	2	50	850	1150	0.6	0.3	1.5	300
9266B	51	48	10 LF	SbCs	30	B - c	70	8	11.5	2	50	850	1100	0.6	0.3	1.5	300
9266FLB	51	48	10 LF	SbCs	30	B - c	70	8	11.5	2	50	850	1100	0.6	0.3	1.5	300
9266KB	51	48	10 LF	SbCs	30	B - c	70	8	11.5	2	50	850	1100	0.6	0.3	1.5	300
9266QB	51	48	10 LF	SbCs	30	Q - c	70	8	11.5	2	50	850	1100	0.6	0.3	1.5	300
9266XXB	51	48	10 LF	SbCs	30	B - c	70	8	11.5	2	50	850	1100	0.6	0.3	1.5	300
9789B	51	10	13 VB	SbCs	25	B - c	80	7	10	2.5	2000	1100	1500	25	0.5	2	60
9789QB	51	10	13 VB	SbCs	25	Q - c	80	7	10	2.5	2000	1100	1500	25	0.5	2	60

Comprehensive data sheets for all of the above types are available on request, or can be downloaded from www.detectorteo.com

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)

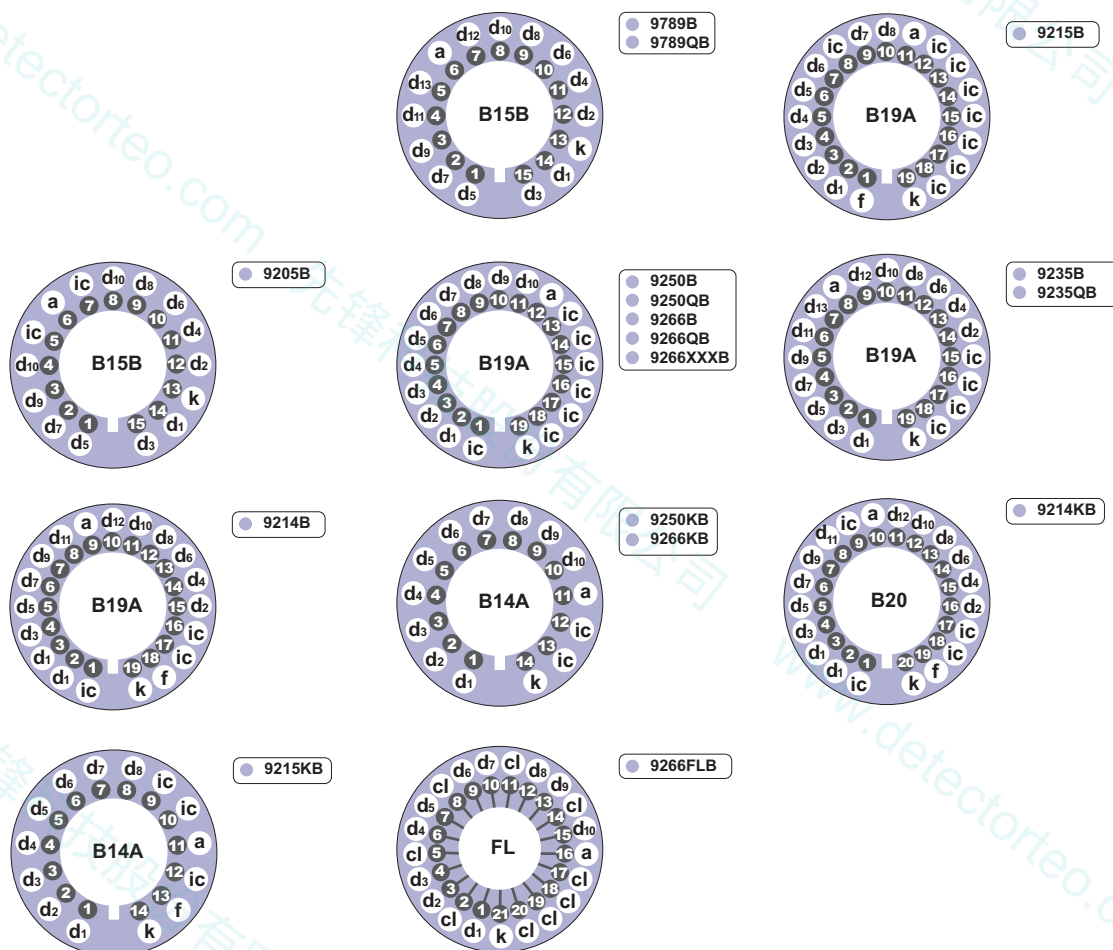


max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Accessories			
					Socket	Shield	Voltage divider series	
							passive	active
2000	4	6.5	9205B	10 stage plug-in replacement for 11 stage 6097B.	B15B	MS52A(F)	C621	-
2000	2	3	9214B	variant of 9814B, SbCs dynodes to minimise rate effect.	B19A	MS52B(F)	C638	-
2000	2	3	9214KB	variant of 9214B with capped base.	B20	MS52B(F)	C640	-
50	4	6.5	9215B	variant of 9266B, short length and 8 dynodes for higher light levels.	B19A	MS52A(F)	C684	-
50	4	6.5	9215KB	variant of 9215B with capped base.	B14A	MS52E	C633	-
5000	5	10	9235B	variant of 9266B, high gain, replaces 9635B.	B19A	MS52C(F)	C679	-
5000	5	10	9235QB	variant of 9235B with UV sensitivity to 165nm.	B19A	MS52C(F)	C679	-
500	4	6.5	9250B	variant of 9266B, higher sensitivity, low dark count, replaces 9750B.	B19A	MS52A(F)	C647	-
500	4	6.5	9250KB	variant of 9250B with capped base.	B14A	MS52E	C636	-
500	4	6.5	9250QB	variant of 9250B with UV sensitivity to 165nm.	B19A	MS52A(F)	C647	-
500	4	6.5	9266B	10 stage, high performance parent type.	B19A	MS52A(F)	C647	-
500	4	6.5	9266FLB	variant of 9266B with flexible leads.	FL	MS52A	C655	-
500	4	6.5	9266KB	variant of 9266B with capped base.	B14A	MS52E	C636	-
500	4	6.5	9266QB	variant of 9266B with UV sensitivity to 165nm.	B19A	MS52A(F)	C647	-
500	4	6.5	9266XXXB	variant of 9266B with low background glass .	B19A	MS52A(F)	C647	-
5000	10	20	9789B	variant of 9235, 10mm effective cathode diameter, shorter length, 15 pin base	B15B	MS52A	-	-
5000	10	20	9789QB	variant of 9789B with UV sensitivity to 165nm.	B15B	MS52A	-	-

aded from www.et-enterprises.com

Base configurations

(Viewed from below)



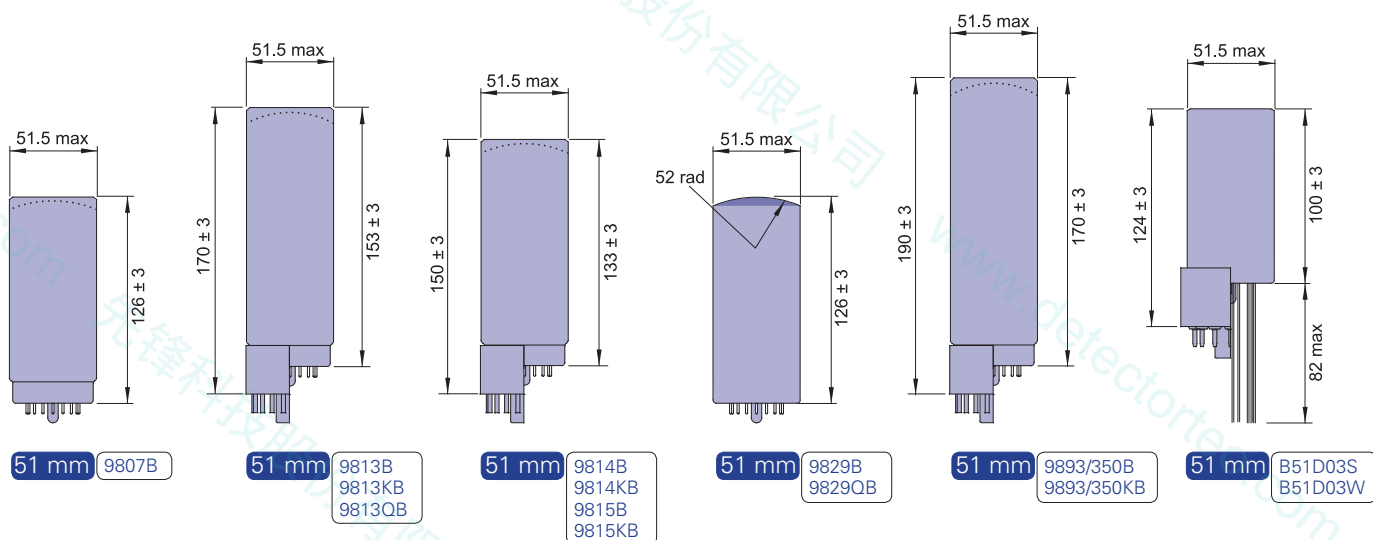
blue-green sensitive bialkali 51mm (2") diameter

type	Characteristics				Photocathode sensitivity						Photomultiplier performance					
	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain X10 ⁶	dark current typical nA	dark current max nA
9807B	51	46	12 LF	BeCu	30	B - c	70	8	11.5	2	500	1650	2300	7	3	20
9813B	51	46	14 LF	BeCu	30	B - c	70	8	11.5	2	5000	2100	2500	70	10	200
9813KB	51	46	14 LF	BeCu	30	B - c	70	8	11.5	2	5000	2100	2500	70	10	200
9813QB	51	46	14 LF	BeCu	30	Q - c	70	8	11.5	2	5000	2100	2500	70	10	200
9814B	51	46	12 LF	BeCu	30	B - c	70	8	11.5	2	500	1950	2300	7	3	20
9814KB	51	46	12 LF	BeCu	30	B - c	70	8	11.5	2	500	1950	2300	7	3	20
9815B	51	46	10 LF	BeCu	30	B - c	70	8	11.5	2	50	1800	2300	0.7	0.3	10
9815KB	51	46	10 LF	BeCu	30	B - c	70	8	11.5	2	50	1800	2300	0.7	0.3	10
9829B	51	46	12 LF	BeCu	30	B - c	85	9.5	12.5	2	500	1600	1900	6	3	10
9829QB	51	46	12 LF	BeCu	30	Q - c	85	9.5	12.5	2	500	1600	1900	6	3	10
9893/350B	51	9	14 LF	BeCu	25	B - c	60	7	10	2	5000	2200	2700	80	0.5	1
9893/350KB	51	9	14 LF	BeCu	25	B - c	60	7	10	2	5000	2200	2700	80	0.5	1
B51D03S	51	46	10 BG	BeCu	23	B - c	70	5	10	3	2	800	1200	0.03	0.2	1
B51D03W	51	46	10 BG	BeCu	25	B - c	70	5	10	3	2	800	1200	0.03	0.2	1

Comprehensive data sheets for all of the above types are available on request, or can be downloaded from the website.

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)

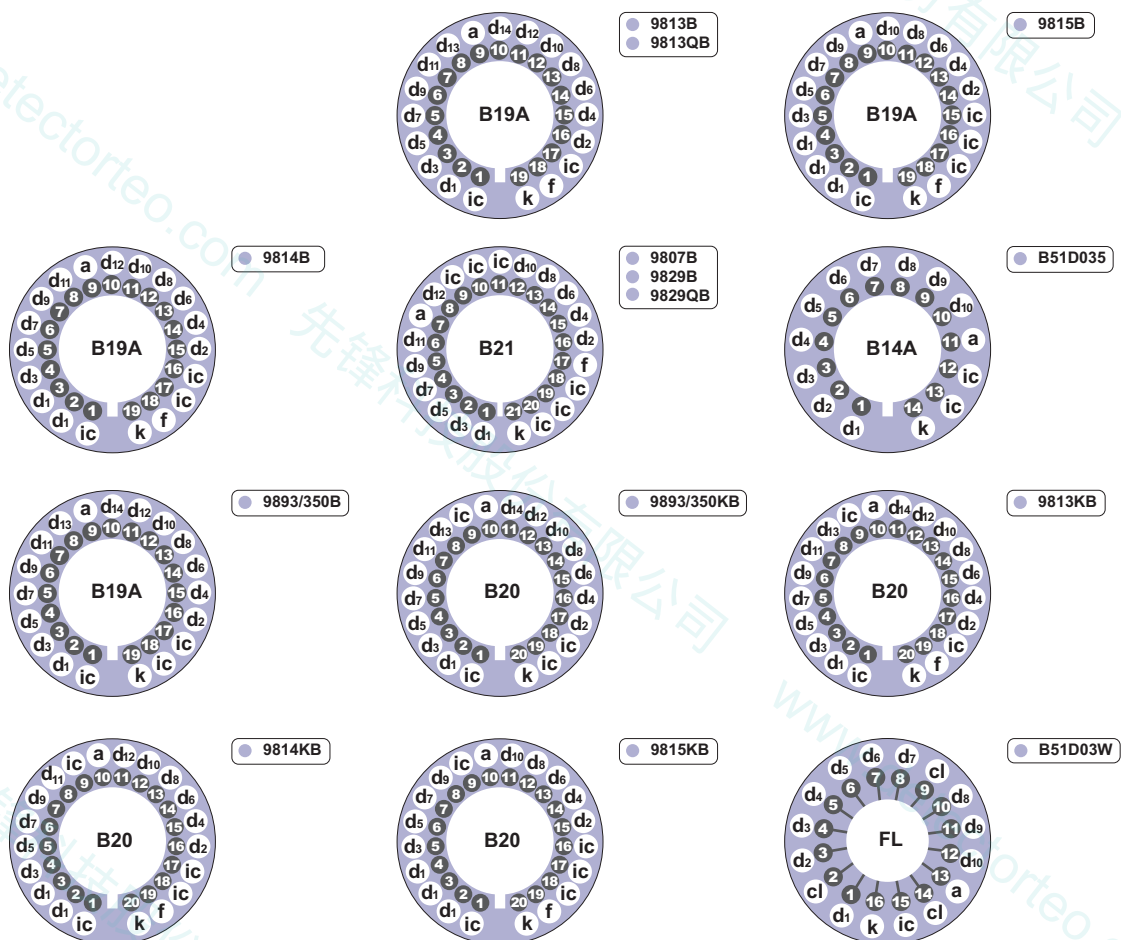


dark rate typical s ⁻¹	max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Accessories			
						Socket	Shield	Voltage divider series	
								passive	active
300	2000	2	3	9807B	variant of 9829B, plano-concave window, replaces 8575 type.	B21	MS52B(E)	C628	-
300	10000	2	3	9813B	variant of 9814B, 14 dynodes for higher gain capability.	B19A	MS52C(F)	C638	-
300	10000	2	3	9813KB	variant of 9813B with capped base.	B20	MS52C	C643	-
300	10000	2	3	9813QB	variant of 9813B with UV sensitivity to 165nm.	B19A	MS52C(F)	C638	-
300	2000	2	3	9814B	12 stage fast linear focused type with good linearity.	B19A	MS52B(F)	C638	-
300	2000	2	3	9814KB	variant of 9814B with capped base.	B20	MS52B	C640	-
300	500	2	3	9815B	variant of 9814B, 10 dynodes for higher light levels.	B19A	MS52B(F)	C638	-
300	500	2	3	9815KB	variant of 9815B with capped base.	B20	MS52B	C644	-
300	2000	2	3	9829B	for low light levels, thin low background glass window.	B21	MS52B(E)	C628	-
300	2000	2	3	9829QB	variant of 9829B with fused silica window for very low background.	B21	MS52B(E)	C628	-
40	10000	2.5	3.5	9893/350B	variant of 9813B, small effective dia, low dark count, low afterpulses.	B19A	MS52D(F)	C638	-
40	10000	2.5	3.5	9893/350KB	variant of 9893/350B with capped base.	B20	MS52D	C641	-
300	20	15	30	B51D03S	general purpose scintillation counting.	B14A	MS52E	C636	-
300	20	15	30	B51D03W	general purpose scintillation counting, flexible wires	FL	MS52A	C647	-

aded from www.et-enterprises.com

Base configurations

(Viewed from below)



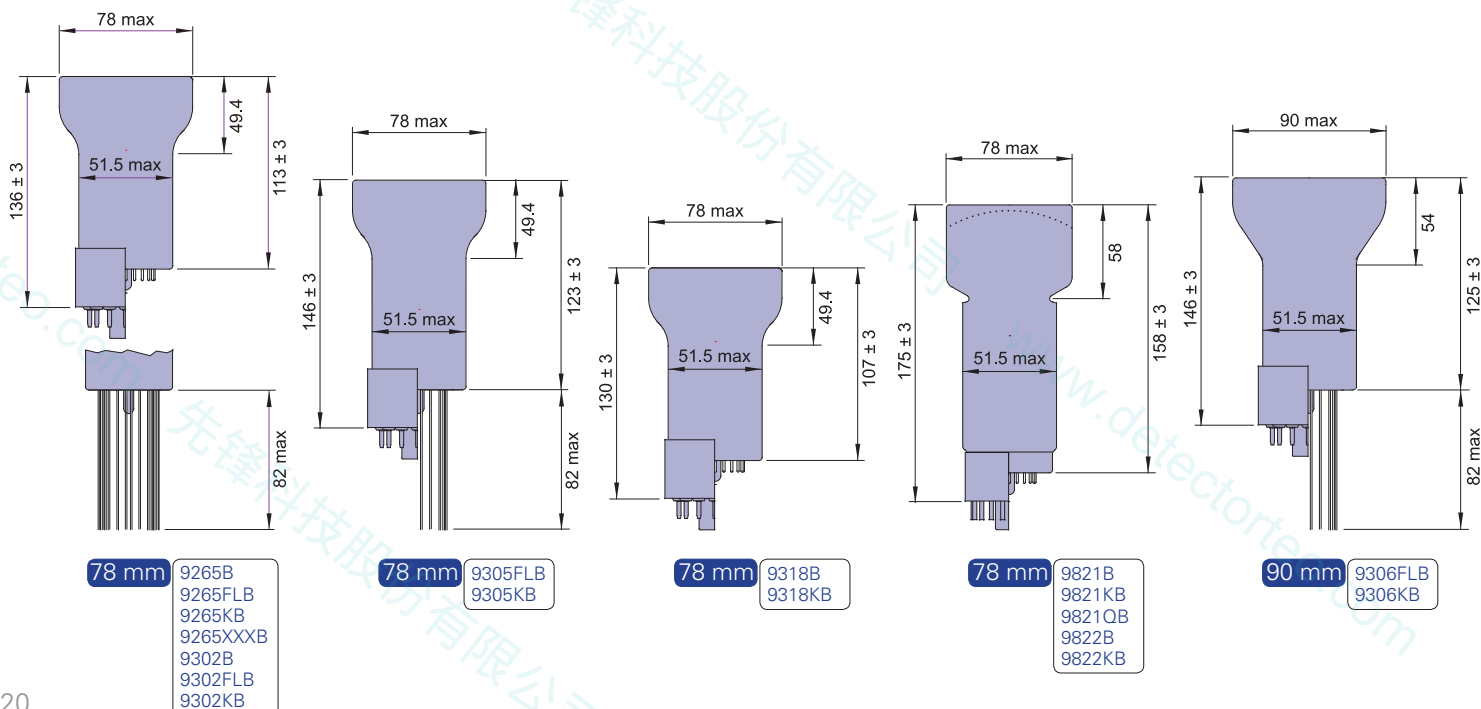
blue-green sensitive bialkali 78 and 90mm (3" and 3½") diameter

Characteristics				Photocathode sensitivity							Photomultiplier performance						
type	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain X10 ⁶	dark current typical nA	dark current max nA	dark rate typical s ⁻¹
9265B	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9265FLB	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9265KB	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9265XXB	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9302B	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9302FLB	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9302KB	78	70	9 LF	SbCs	30	B - c	75	8	12	2	50	950	1300	0.7	0.5	5	-
9305FLB	78	70	10 LF	SbCs	30	B - c	75	8	12	2	50	850	1700	0.7	0.5	10	500
9305KB	78	70	10 LF	SbCs	30	B - c	75	8	12	2	50	850	1700	0.7	0.5	10	500
9318B	78	70	8 LF	SbCs	30	B - c	75	8	12	2	10	900	2000	0.13	0.05	2	-
9318KB	78	70	8 LF	SbCs	30	B - c	75	8	12	2	10	900	2000	0.13	0.05	2	-
9821B	78	67	12 LF	BeCu	30	B - c	75	8	12	2	500	2000	2600	7	10	50	500
9821KB	78	67	12 LF	BeCu	30	B - c	75	8	12	2	500	2000	2600	7	10	50	500
9821QB	78	67	12 LF	BeCu	30	Q - c	75	8	12	2	500	2000	2600	7	10	50	500
9822B	78	67	10 LF	BeCu	30	B - c	75	8	12	2	50	1800	2300	0.7	1	10	500
9822KB	78	67	10 LF	BeCu	30	B - c	75	8	12	2	50	1800	2300	0.7	1	10	500
9306FLB	90	80	10 LF	SbCs	30	B - c	75	8	12	2	50	1200	1450	0.7	1	10	1000
9306KB	90	80	10 LF	SbCs	30	B - c	75	8	12	2	50	1200	1450	0.7	1	10	1000

Comprehensive data sheets for all of the above types are available on request, or can be downloaded from www.detector-teo.com

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)

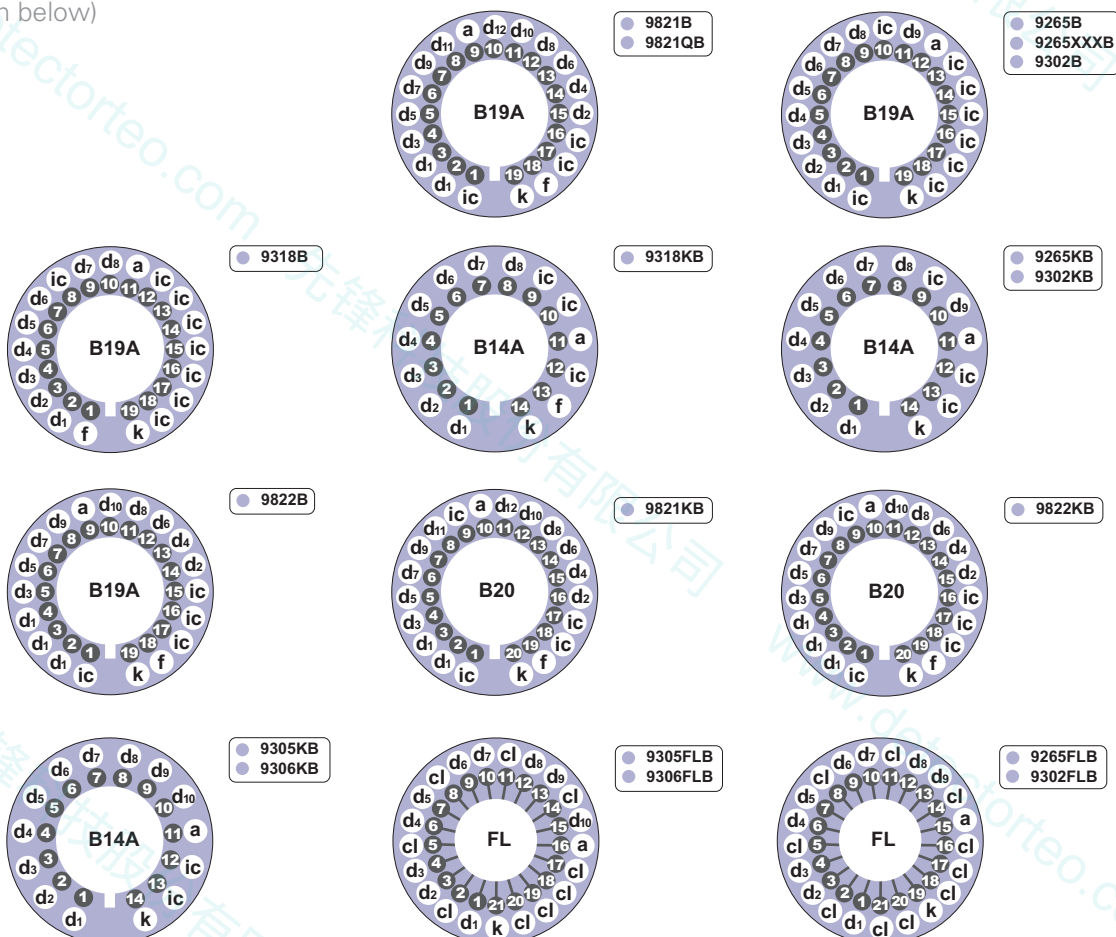


max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Socket	Shield	Accessories	
							passive	active
200	7.5	15	9265B	high performance type, good energy resolution.	B19A	MS75/90	C648	-
200	7.5	15	9265FLB	variant of 9265B with flexible leads.	FL	MS75/90	C656	-
200	7.5	15	9265KB	variant of 9265B with capped base.	B14A	-	C634	-
200	7.5	15	9265XXXB	variant of 9265B with low background glass.	B19A	MS75/90	C648	-
200	7.5	15	9302B	variant of 9265B, ultra low background glass window and envelope.	B19A	MS75/90	C648	-
200	7.5	15	9302FLB	variant of 9302B with flexible leads.	FL	MS75/90	C656	-
200	7.5	15	9302KB	variant of 9302FLB with capped base.	B14A	-	C634	-
200	7.5	15	9305FLB	variant of 9265B, 10 dynodes for higher gain.	FL	MS75/90	C655	-
200	7.5	15	9305KB	variant of 9305FLB with capped base.	B14A	-	C636	-
50	7.5	15	9318B	variant of 9305FLB, short length, 8 dynodes for high light levels.	B19A	MS75/90	C684	-
50	7.5	15	9318KB	variant of 9318B with capped base.	B14A	-	C633	-
2000	2.1	3.2	9821B	12 stage fast linear focused type, good SER.	B19A	MS75/90	C638	-
2000	2.1	3.2	9821KB	variant of 9821B with capped base.	B20	-	C640	-
2000	2.1	3.2	9821QB	variant of 9821B with UV sensitivity to 165nm.	B19A	MS75/90	C638	-
500	2	3	9822B	variant of 9821B, 10 dynodes for higher light levels.	B19A	MS75/90	C638	-
500	2	3	9822KB	variant of 9822B with capped base.	B20	-	C644	-
200	7.5	16	9306FLB	variant of 9305FLB with larger (90 mm) diameter.	FL	MS75/90	C655	-
200	7.5	16	9306KB	variant of 9306FLB with capped base.	B14A	-	C636	-

aded from www.et-enterprises.com

Base configurations

(Viewed from below)



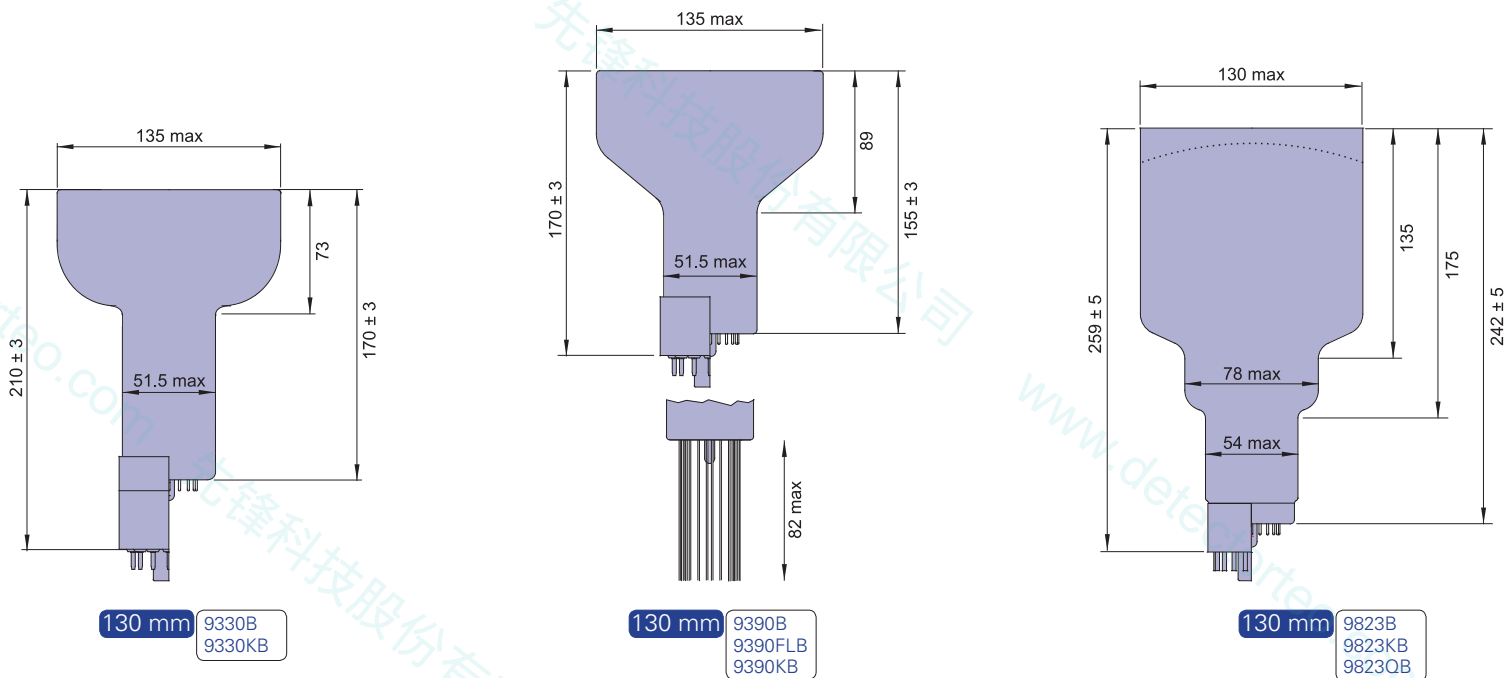
blue-green sensitive bialkali 130 and 200mm (5" and 8")diameter

Characteristics					Photocathode sensitivity						Photomultiplier performance						
type	diameter nominal mm	active diameter nominal mm	number & type of dynodes	dynode surface	QE (%) peak typical	QE Curve	uA/Lm typical	CB min	CB typical	CR typical	nominal A/Lm	Vk-a typical	Vk-a max	gain X10 ⁶	dark current typical nA	dark current max nA	dark rate typical s ⁻¹
9330B	130	115	11 LF	SbCs	30	B - c	75	8	12	2	200	1200	1700	3	4	100	1500
9330KB	130	115	11 LF	SbCs	30	B - c	75	8	12	2	200	1200	1700	3	4	100	1500
9390B	130	115	10 LF	SbCs	28	B - c	75	9	12	2	50	1000	1500	0.7	1	20	1500
9390FLB	130	115	10 LF	SbCs	28	B - c	75	9	12	2	50	1000	1500	0.7	1	20	1500
9390KB	130	115	10 LF	SbCs	28	B - c	75	9	12	2	50	1000	1500	0.7	1	20	1500
9823B	130	110	14 LF	BeCu	30	B - c	65	7	11	1	5000	2400	3000	80	100	1000	1500
9823KB	130	110	14 LF	BeCu	30	B - c	65	7	11	1	5000	2400	3000	80	100	1000	1500
9823QB	130	110	14 LF	BeCu	30	Q - c	65	7	11	1	5000	2400	3000	80	100	1000	1500
9354FLB	200	190	12 LF	SbCs	30	B - c	70	70	9	1	500	1300	1700	7	10	200	4000
9354KB	200	190	12 LF	SbCs	30	B - c	70	70	9	1	500	1300	1700	7	10	200	4000

Comprehensive data sheets for all of the above types are available on request, or can be downloaded

Outline drawings mm

(add 0.8mm to diameter when insulating sleeving is specified)



max rated A/Lm (gain)	pulse rise time ns	pulse fwhm ns	type	Special features	Socket	Shield	Accessories	
							passive	active
2000	10	15	9330B	variant of 9390B, higher gain capability replacing 9530B and 9930B.	B19A	MS130A	C623	-
2000	10	15	9330KB	variant of 9330B with capped base.	B14A	MS130B	C632	-
200	10	15	9390B	high performance parent type with good energy resolution.	B19A	MS130A	C647	-
200	10	15	9390FLB	variant of 9390B with flexible wires.	FL	MS130A	C655	-
200	10	15	9390KB	variant of 9390B with capped base.	B14A	MS130B	C636	-
10000	2.7	3.6	9823B	very high gain capability and fast response.	B19A	MS130A	C638	-
10000	2.7	3.6	9823KB	variant of 9823B with capped base.	B20	-	C643	-
10000	2.7	3.6	9823QB	variant of 9823B with UV sensitivity to 165nm.	B19A	MS130A	C638	-
2000	4	6	9354FLB	hemispherical, ultra low background, water and pressure resistant envelope.	FL	-	C690	-
2000	4	6	9354KB	variant of 9354FLB with capped base.	B20	MS200A	C640	-

aded from www.et-enterprises.com

Base configurations

(Viewed from below)

