25mm (1") photomultiplier L25D32 series data sheet



1 description

The L25D32 is a 25 mm (1") diameter, end window photomultiplier with a blue-green sensitive bialkali photocathode and 6 linear focused type dynodes.



· low gain application

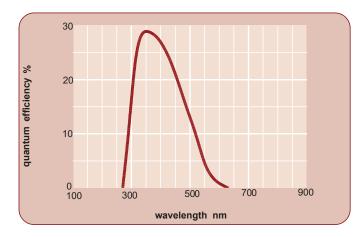


· fast time response

4 window characteristics

L25D32 hard glass			
spectral range*(nm) refractive index (n)	290-630 1.49		
K (ppm) Th (ppb) U (ppb)	(tbd)		

5 typical spectral response curves

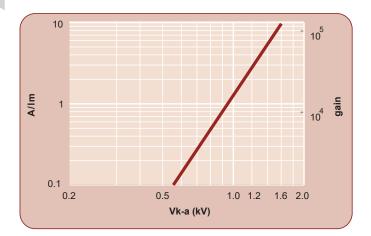


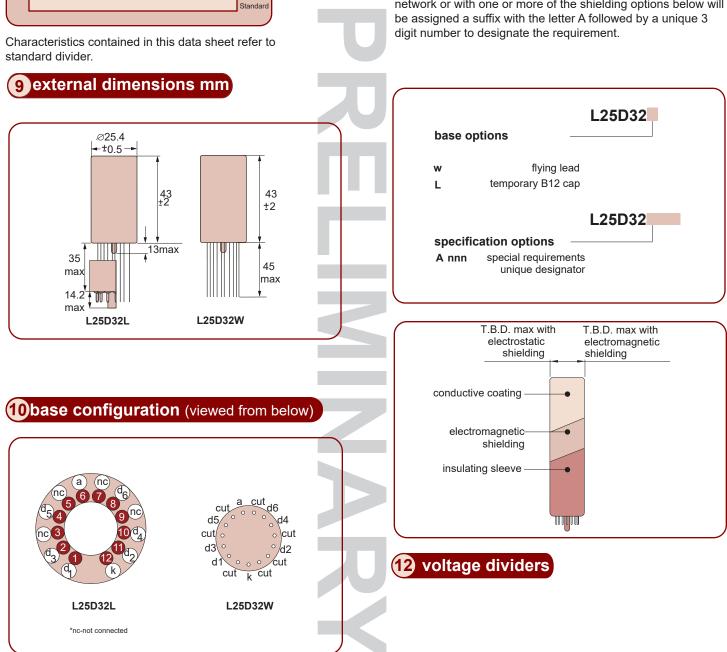
6 characteristics

(unit	min	typ	max
photocathode: bialkali				
active diameter	mm	22	-	
quantum efficiency at peak	%		28	
luminous sensitivity	μ A/Im		80 11	
with CB filter		8.5	2	
with CR filter			2	
dynodes: 6 LF anode sensitivity:				
nominal anode sensitivity	A/Im		2	
max. rated anode sensitivity	A/Im		10	
overall V for nominal A/Im	V		1100	
overall V for max. rated A/Im	V		1600	
gain at nominal A/Im	x10 ⁴		2.5	
dark current at 20°C:				
dc at nominal A/Im	nA		0.4	3
dc at max. rated A/Im	nA s ¹		2	
dark count rate	s mA		- TBD	
pulsed linearity(-5% deviation)	mA		TDD	
pulse height resolution:				
²² Na with 1" x 1" LSO air gap	%		12	
timing: at 1500 V			-	
multi electron rise time	ns		0.7	
single electron jitter (fwhm)	ps		TBD	
transit time	ns		8	
weight:	g		19	
maximum ratings:				
anode current	μA			100
cathode current	nA			20
gain	x 10 ⁵			1.2
anode sensitivity	A/Im ℃	-30		10 50
temperature	V V	-30		50 1700
$V(k-a)^{(1)}$	V			600
V (k-d1) V (d-d) ⁽²⁾	V			225
v (u-u)(~)				220

(1) subject to not exceeding max.rated sensitivity ⁽²⁾ subject to not exceeding max. rated V(k-a)

7 typical voltage gain characteristics





The L25D32 can be supplied with a custom designed voltage divider installed.

choose accessories for this pmt on our website ADIT Electron Tubes ET Enterprises Limited 45 Riverside Way 300 Crane Street Sweetwater, Texas 79556 U.S.A. Uxbridge UB8 2YF ISO 9001:2008 Registered tel:(325)235-1418 United Kingdom **BSI Certificate 537654** toll free:(800)399-4557 tel:+44(0)1895 2000880 fax:(325)235-2872 fax:+44(0)1895 270273 The company reserves the right to modify these designs and specifications without noti © ADIT Electron Tubes 2013 Developmental devices are intended for evaluation and no obligation is assumed for future manufacture. While every effort is made to ensure accuracy of published information the company cannot be held responsible for errors or consequences arising therefrom. email:sales@electrontubes.com email:sales@et-enterprises.com DS_L25D32 Issue 1 (08.24.17) website:www.electrontubes.com website:www.et-enterprises.com

11 ordering information

Product with special test requirements, integral voltage divider network or with one or more of the shielding options below will

8 voltage divider distribution

1.5 1

а

1

 $d_1 d_2 d_3 d_4 d_5 d_6$

1.5 1.5 1

k

4