

FLEXIBLE LIGHT PIPES

SMPT Series, Surface mount LED/Integrated Adapter



- Eliminates need for Thru-Hole Drilling of PCBs
- Exclusively Designed for Flexible Light Pipe Lens Cap Assemblies
(see page 17-18)
- Brilliant LED Display Capable of Being Extended from 2.5" (63.5mm) to 328' (100m) Via the FLP Mono-Fiber
- Available in All Standard Colors Including RGB and Red/Green Bi-Color
- Patents issued and Patents Pending

SMPT Series

The all-new (patented and patents pending) SMPT Series of Surface Mount LED devices exclusively designed to accept the company's patented Flexible Light Pipes (FLP Series), create a new design and installation style that eliminates the need for through-hole PCBs typically required for installation of light pipes.

The SMPT Series significantly expands the benefits of using Bivar's original award-winning FLP series, which introduced a two-piece flexible light pipe system capable of transmitting the light from an LED to a display panel up to 100m [328'] away. While the original FLP series provided an adapter for use with surface mount (SMD) LEDs, the adapter still required through-holes in the PCB for mounting purposes. The SMPT Series eliminates not only the need for PCB through-holes, but also the costly secondary post-reflow operations by integrating the adapter and LED into a single surface-mountable package that is compatible with all modern, automated pick-and-place equipment.

LED Part No.	Chip			Lens Appearance	Absolute Max. Ratings				Electro-Optical Data @20mA			Viewing Angle 2 θ 1/2 (deg)
	Material	Peak Wave Length λ_p (nm)	Emitted Color		$\Delta \lambda$ (nm)	Pd (mW)	If (mA)	Peak If (mA)	Vf (V) TYP	Vf (V) MAX	Iv (mcd) TYP	
SMPT-UBWC	GaN	470	BLUE	OPTICAL	68	150	30	150	3.4	4.0	288	DIRECT
SMPT-UGC	InGaN	525	GREEN	OPTICAL	40	150	30	150	3.2	3.8	460	DIRECT
SMPT-UYC	AlGaInP	595	YELLOW	OPTICAL	32	100	30	150	2.0	2.5	456	DIRECT
SMPT-URC	AlGaInP	640	HE RED	OPTICAL	23	80	30	150	1.9	2.4	416	DIRECT
SMPT-UWC	GaN	-	WHITE	OPTICAL	68	150	30	150	3.4	4.0	250	DIRECT
SMPT-SBC	GaN	640	HE RED	OPTICAL	23	80	30	150	1.9	2.4	416	DIRECT
	GaN	525	GREEN		40	150	30	150	3.2	3.8	460	
SMPT-RGB	AlGaInP	640	HE RED	OPTICAL	23	80	30	150	1.9	2.4	416	DIRECT
	GaN	470	BLUE		68	150	30	150	3.4	4.0	288	
	InGaN	525	GREEN		40	150	30	150	3.2	3.8	460	

