

7012X Series Bright Chips™ SMT LEDs 0805 Package Size



- Premium brightness in miniature chip-type LED assemblies.
- Ideally suited for applications such as telecommunications, dataprocessing peripherals and networking units as replacements for through-hole products.
- Also ideal for backlighting or light pipe applications.
- Compact size: 2mm wide x 1.25mm deep x 1mm high
- 4000 pieces per reel
- REACH and RoHS Compliant

- Integral reflection cup maximizes output
- Compatible with full range of IR and vapor phase reflow processes, and conductive adhesives, to facilitate high-speed board loading.
- Packaged for automatic component placement in pocketed anti-static tape reels.

Electro-Optical Characteristics and Ratings

P AR T NUMBER	7012X5	7012X1	7012X7
OutputColor	Green	Red	Yellow-Green
Diffus ion	Diffus ed	Diffus ed	Diffus ed
Package Color	Clear	Clear	Clear
TestCurrent(mA)	20	20	20
Forward Voltage Typ. (V)	2.1	1.7	2.1
Forward Voltage Max. (V)	2.5	2.0	2.5
Luminous Intensity Min. (mcd)	3.8	7.0	7.0
Luminous Intensity Typ. (mcd)	6.4	11.7	11.7
Luminous Intensity Max. (mcd)	-	-	-
Peak Wavelength (nm)	560	660	570
Viewing Ang le 20 1/2 (degrees)	-	-	-
Power Dissipation (mW)	62.5	50	62.5
Operating Temperature (°C)	-40 to +85	-40 to +85	-40 to +85
Storage Tempe rature (°C)	-40 to +90	-40 to +90	-40 to +90
Peak Forward Current Max. (1µs @ 10% duty cy cle) (mA)	60	60	60
Reverse Voltage (IR=100µA) (V)	4	4	4
Lead Solder Time @ 260℃	5	5	5



Dimensions

7012X Series Solder Pad Geometry (Dimensions in mm)





Reel Dimensions



Compliances and Approvals

