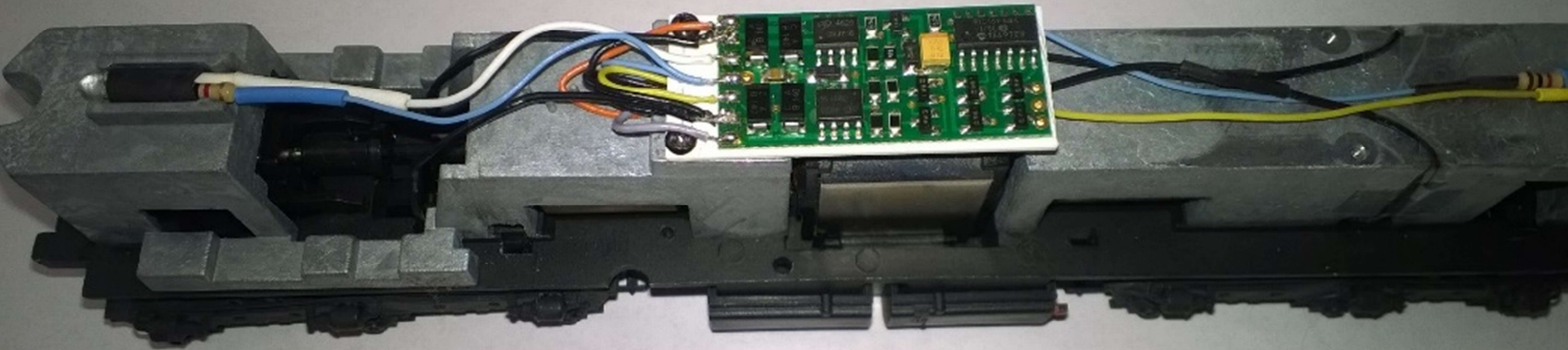


# General Arrangement on SD7/9


Similar for the GP7/9 and other models.



The decoder is NCE D13SR mounted on flat styrene using double sided tape. Styrene is secured to weight with screws for easy removal. Wires are soldered to board.

# LED's purchased on eBay from China

Low cost and are a good color choice for locomotive front/rear lights.



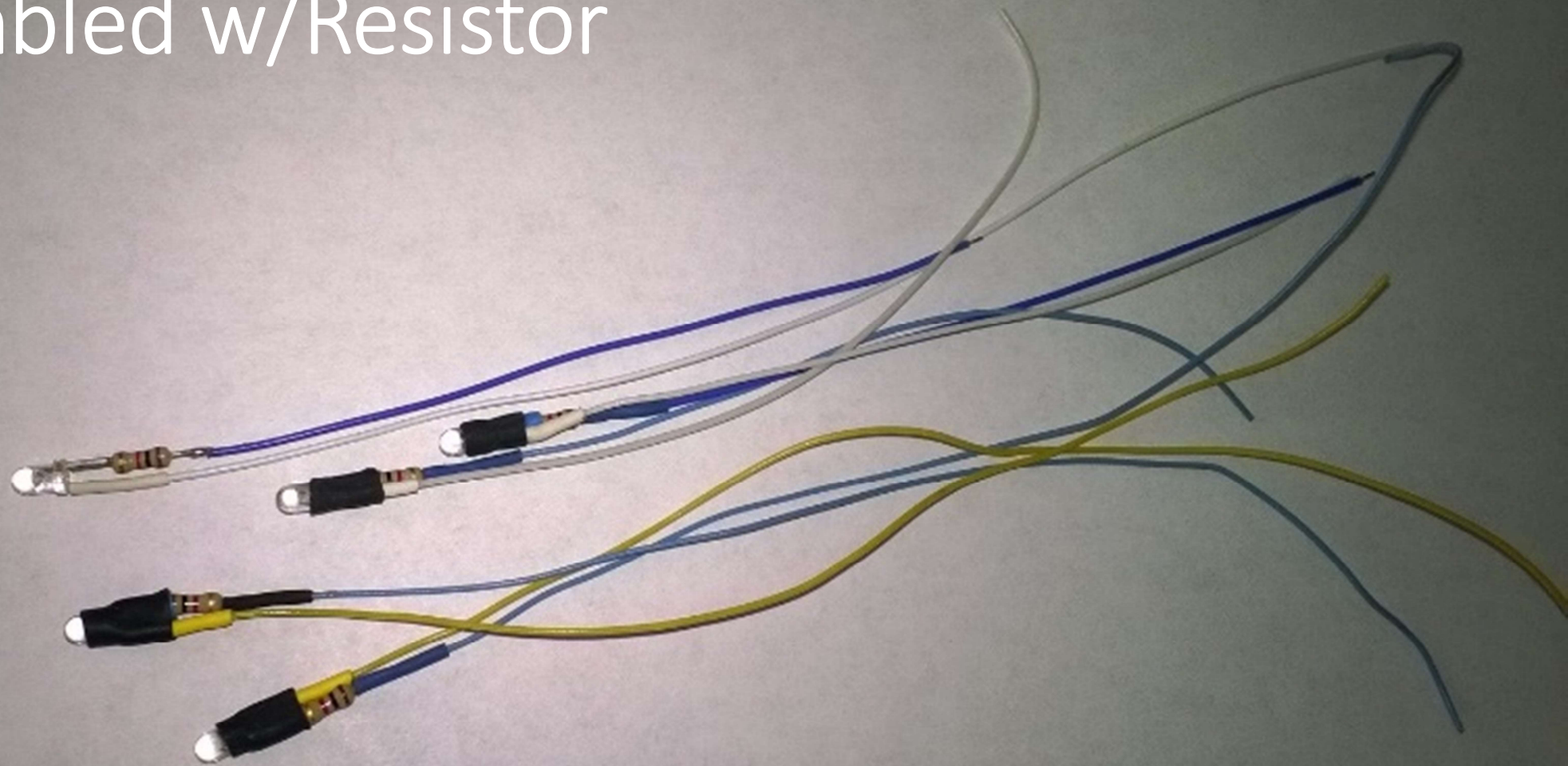
100 PCS Ultra Bright  
Warm White LEDs, 3mm

# 1000 (1K) ohm Resistors



Found these at Halted Specialties warehouse in Sunnyvale for about 3 cents each. Have to read the code to ensure you are getting what you expect – you will have to get your hands dirty picking these out – unless you get lucky and find a bag un-opened with 500 or 1000.

# LED Assembled w/Resistor



These start off with nipping off the LED ridge and filing smooth, to minimize the OD size. Then adding the resistor, wires and shrink tubing. Time consuming process with good results.

Shrink tubing can be found at Halted or at Fry's. Acceptable wire is 29, 30, 31 AWG.

This wire was scavenged from old PC cables to keep the cost low.

Cheap and Good – About \$13.00 Each (eBay)

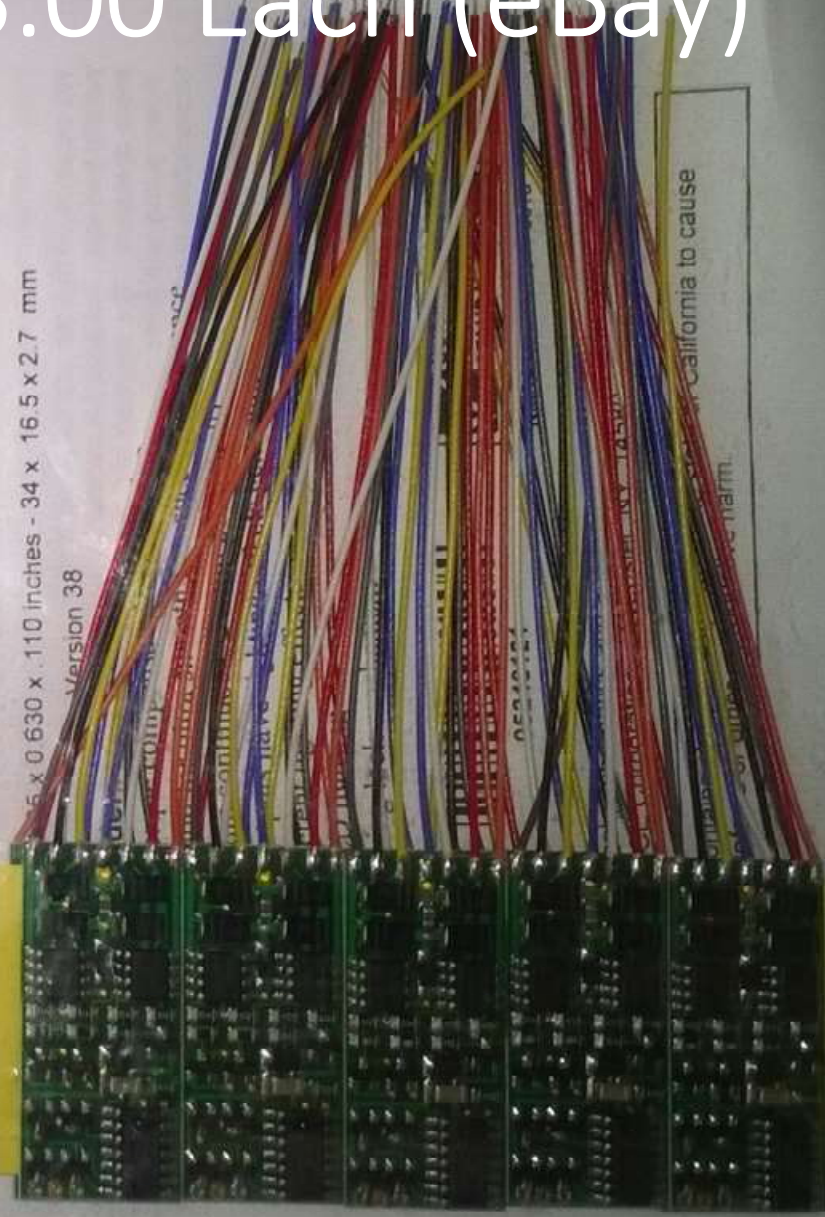


## D13SR - 10 pack



\$174.95

16.5 x 0.630 x 110 inches - 34 x 16.5 x 2.7 mm  
Version 38



WARNING: This product can irritate or cause harm if it gets into your eyes. Wash immediately. See back for more information.