

# 1/2 WATT CARBON COMPOSITION

Value in Ohms	NTE Stock Number	Value in Ohms	NTE Stock Number	Value in Ohms	NTE Stock Number	Value in Ohms	NTE Stock Number	Value in Ohms	NTE Stock Number
10	HWCC010	150	HWCC115	2.2K	HWCC222	33K	HWCC333	470K	HWCC447
12	HWCC012	180	HWCC118	2.7K	HWCC227	39K	HWCC339	560K	HWCC456
15	HWCC015	220	HWCC122	3.3K	HWCC233	47K	HWCC347	680K	HWCC468
18	HWCC018	270	HWCC127	3.9K	HWCC239	56K	HWCC356	820K	HWCC482
22	HWCC022	330	HWCC133	4.7K	HWCC247	68K	HWCC368	1M	HWCC510
27	HWCC027	390	HWCC139	5.6K	HWCC256	82K	HWCC382		
33	HWCC033	470	HWCC147	6.8K	HWCC268	100K	HWCC410		
39	HWCC039	560	HWCC156	8.2K	HWCC282	120K	HWCC412		
47	HWCC047	680	HWCC168	10K	HWCC310	150K	HWCC415		
56	HWCC056	820	HWCC182	12K	HWCC312	180K	HWCC418		
68	HWCC068	1K	HWCC210	15K	HWCC315	220K	HWCC422		
82	HWCC082	1.2K	HWCC212	18K	HWCC318	270K	HWCC427		
100	HWCC110	1.5K	HWCC215	22K	HWCC322	330K	HWCC433		
120	HWCC112	1.8K	HWCC218	27K	HWCC327	390K	HWCC439		

## SPECIFICATIONS

### Electrical Characteristics @ 70°C

NTE Number	Resistance Range (Ohms)	Tolerance (%)	Voltage (Volts)	Operating Temperature (T <sub>opr</sub> )	Temperature Coefficient (PPM/°C)
HWCC010 thru HWCC510	10 to 1M	5	350	-55° to +150°C	±0.15%

### Mechanical\* (Typical, inches/mm)

NTE Number	Body Length (L)	Body Diameter (D)	Lead Diameter (d)	Lead Length (LL)
HWCC010 thru HWCC510	0.375 (9.53)	0.140 (3.56)	0.028 (0.71)	1.000 (25.4)

\* These dimensions are for reference only, please consult the factory for actual size.

