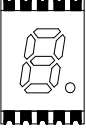
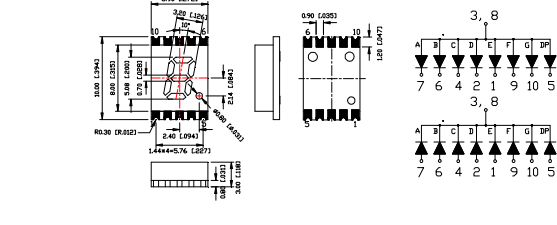
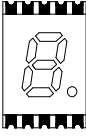
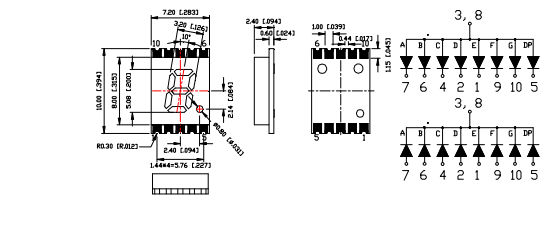
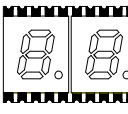
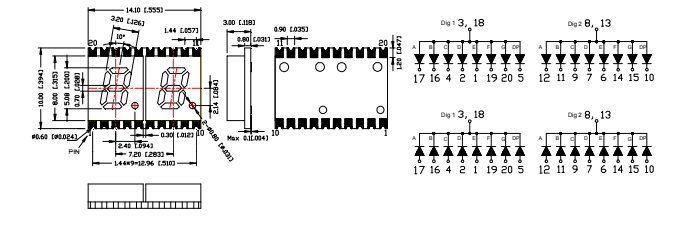
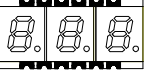
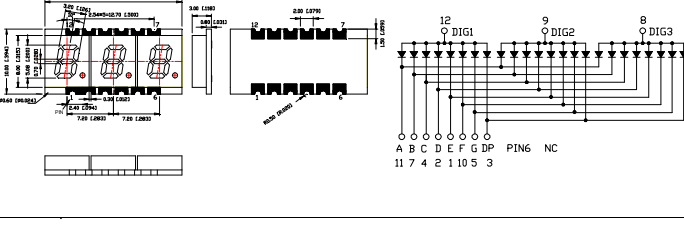
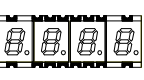
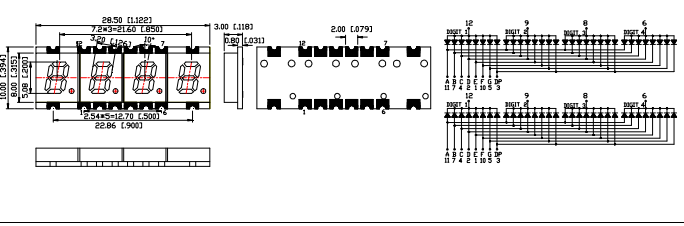
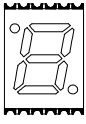
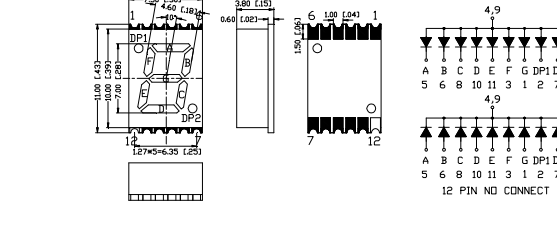
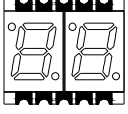
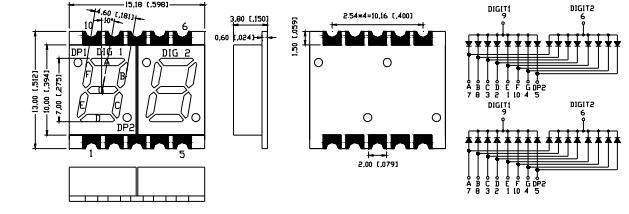
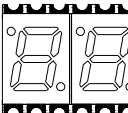
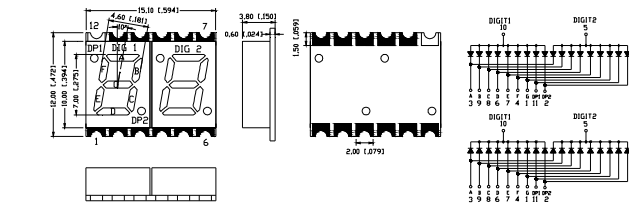
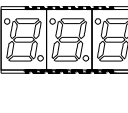
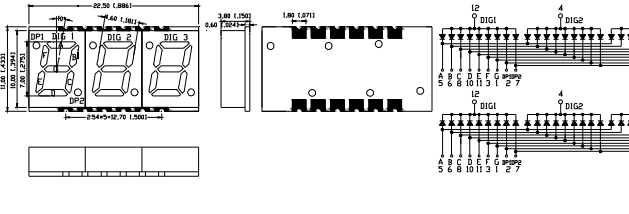
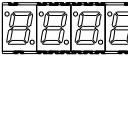
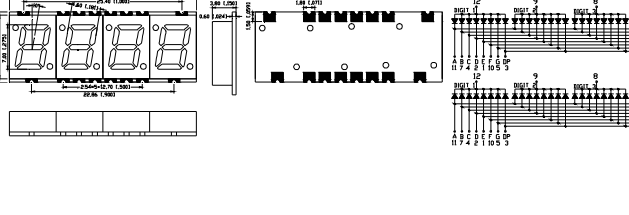
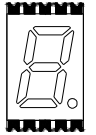
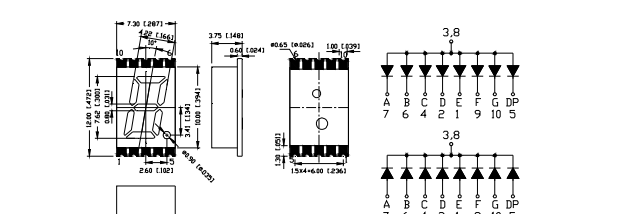
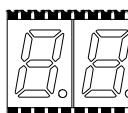
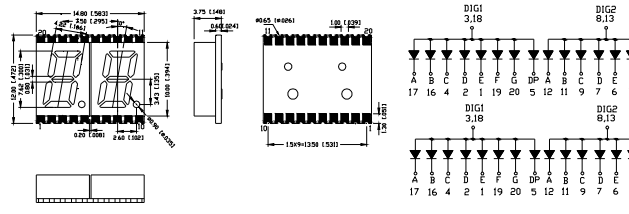
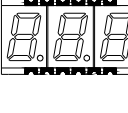
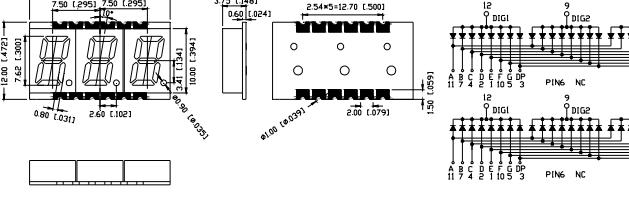
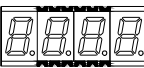
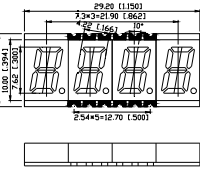
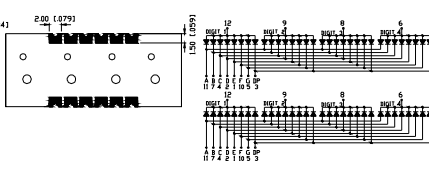
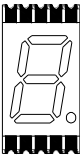
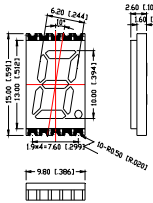
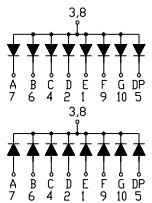
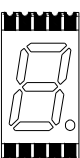
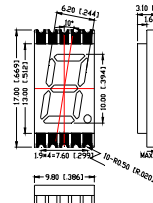
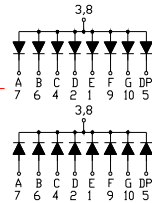
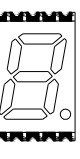
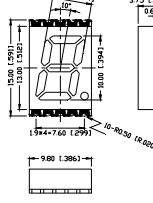
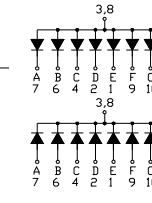
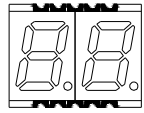
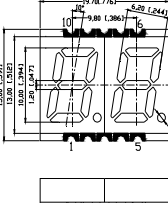
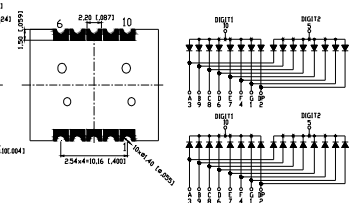
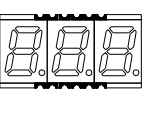
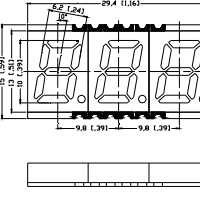
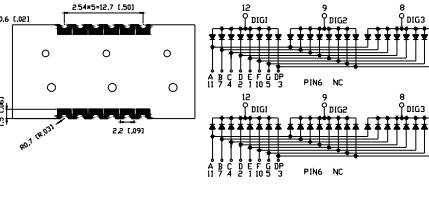
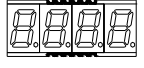
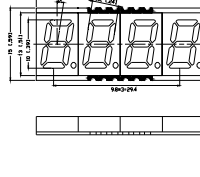
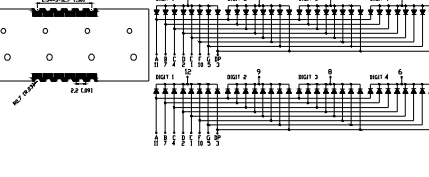
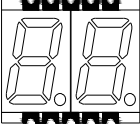
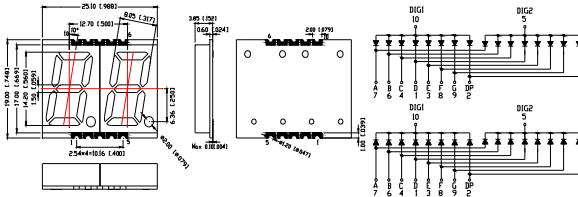
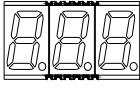
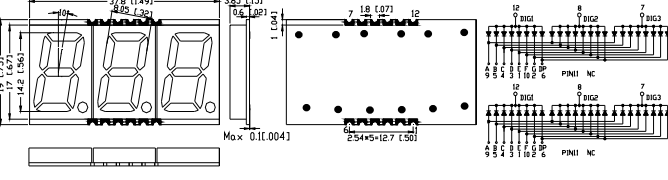
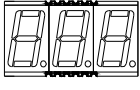
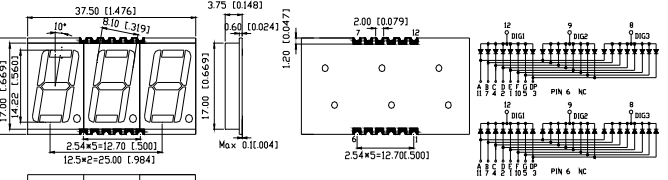
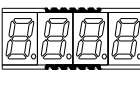
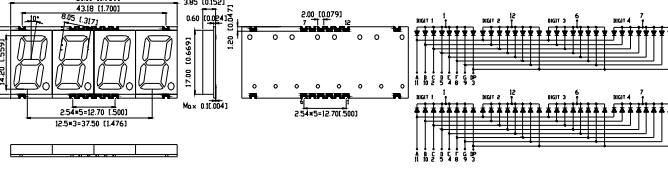
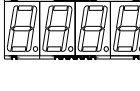
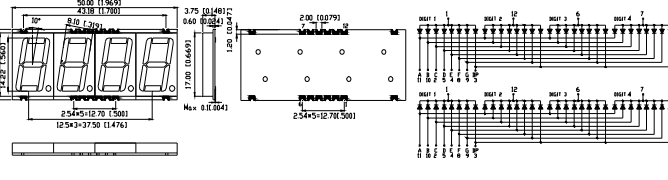
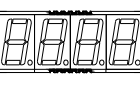
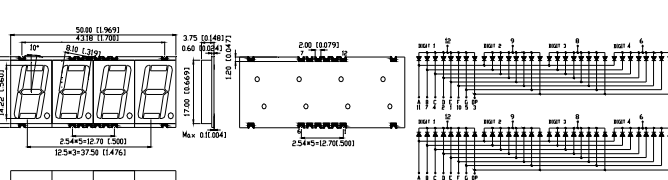
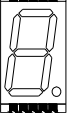
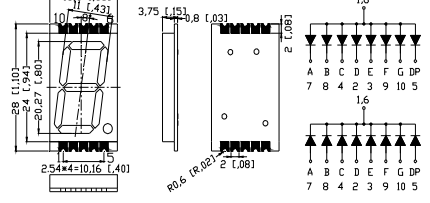


Product Type	Common anode	Common Cathode	Package Dimensions & internal circuit	Emitted color	Wd	$I_{f@10mA}(mcd)$
	MSD-SR 0217	MSD-SR 0210		Super Red	640nm	3
	MSD-UR 0217	MSD-UR 0210		Ultra Red	620	9
	MSD-O 0217	MSD-O 0210		Orange	605	5
	MSD-Y 0217	MSD-Y 0210		Yellow	580	5
	MSD-YG 0217	MSD-YG 0210		Yellowish green	570nm	3
	MSD-PG 0217	MSD-PG 0210		Pure Green	520nm	15
	MSD-B 0217	MSD-B 0210		Blue	470nm	11
	MSD-W 0217	MSD-W 0210		White	x0.27 y0.25	30
	MSD-SR 0217	MSD-SR 0210		Super Red	640nm	4
	MSD-UR 0217	MSD-UR 0210		Ultra Red	620	10
	MSD-O 0217	MSD-O 0210		Orange	605	6
	MSD-Y 0217	MSD-Y 0210		Yellow	580	6
	MSD-YG 0217	MSD-YG 0210		Yellowish green	570nm	4
	MSD-PG 0217	MSD-PG 0210		Pure Green	520nm	16
	MSD-B 0217	MSD-B 0210		Blue	470nm	12
	MSD-W 0217	MSD-W 0210		White	x0.27 y0.25	35
	MSD-SR 0227	MSD-SR 0220		Super Red	640nm	3
	MSD-UR 0227	MSD-UR 0220		Ultra Red	620	9
	MSD-O 0227	MSD-O 0220		Orange	605	5
	MSD-Y 0227	MSD-Y 0220		Yellow	580	5
	MSD-YG 0227	MSD-YG 0220		Yellowish green	570nm	3
	MSD-PG 0227	MSD-PG 0220		Pure Green	520nm	15
	MSD-B 0227	MSD-B 0220		Blue	470nm	11
	MSD-W 0227	MSD-W 0220		White	x0.27 y0.25	30
	MSD-SR 0237	MSD-SR 0230		Super Red	640nm	3
	MSD-UR 0237	MSD-UR 0230		Ultra Red	620	9
	MSD-O 0237	MSD-O 0230		Orange	605	5
	MSD-Y 0237	MSD-Y 0230		Yellow	580	5
	MSD-YG 0237	MSD-YG 0230		Yellowish green	570nm	3
	MSD-PG 0237	MSD-PG 0230		Pure Green	520nm	15
	MSD-B 0237	MSD-B 0230		Blue	470nm	11
	MSD-W 0237	MSD-W 0230		White	x0.27 y0.25	30
	MSD-SR 0247	MSD-SR 0240		Super Red	640nm	3
	MSD-UR 0247	MSD-UR 0240		Ultra Red	620	9
	MSD-O 0247	MSD-O 0240		Orange	605	5
	MSD-Y 0247	MSD-Y 0240		Yellow	580	5
	MSD-YG 0247	MSD-YG 0240		Yellowish green	570nm	3
	MSD-PG 0247	MSD-PG 0240		Pure Green	520nm	15
	MSD-B 0247	MSD-B 0240		Blue	470nm	11
	MSD-W 0247	MSD-W 0240		White	x0.27 y0.25	30
	MSD-SR 02817	MSD-SR 02810		Super Red	640nm	3
	MSD-UR 02817	MSD-UR 02810		Ultra Red	620	9
	MSD-O 02817	MSD-O 02810		Orange	605	5
	MSD-Y 02817	MSD-Y 02810		Yellow	580	5
	MSD-YG 02817	MSD-YG 02810		Yellowish green	570nm	3
	MSD-PG 02817	MSD-PG 02810		Pure Green	520nm	15
	MSD-B 02817	MSD-B 02810		Blue	470nm	11
	MSD-W 02817	MSD-W 02810		White	x0.27 y0.25	30

	MSD-SR 02827	MSD-SR 02820		Super Red	640nm	3
	MSD-UR 02827	MSD-UR 02820		Ultra Red	620	9
	MSD-O 02827	MSD-O 02820		Orange	605	5
	MSD-Y 02827	MSD-Y 02820		Yellow	580	5
	MSD-YG 02827	MSD-YG 02820		Yellowish green	570nm	3
	MSD-PG 02827	MSD-PG 02820		Pure Green	520nm	15
	MSD-B 02827	MSD-B 02820		Blue	470nm	11
	MSD-W 02827	MSD-W 02820		White	x0.27 y0.25	30
	MSD-SR 02827	MSD-SR 02820		Super Red	640nm	3
	MSD-UR 02827	MSD-UR 02820		Ultra Red	620	9
	MSD-O 02827	MSD-O 02820		Orange	605	5
	MSD-Y 02827	MSD-Y 02820		Yellow	580	5
	MSD-YG 02827	MSD-YG 02820		Yellowish green	570nm	3
	MSD-PG 02827	MSD-PG 02820		Pure Green	520nm	15
	MSD-B 02827	MSD-B 02820		Blue	470nm	11
	MSD-W 02827	MSD-W 02820		White	x0.27 y0.25	30
	MSD-SR 02837	MSD-SR 02830		Super Red	640nm	3
	MSD-UR 02837	MSD-UR 02830		Ultra Red	620	9
	MSD-O 02837	MSD-O 02830		Orange	605	5
	MSD-Y 02837	MSD-Y 02830		Yellow	580	5
	MSD-YG 02837	MSD-YG 02830		Yellowish green	570nm	3
	MSD-PG 02837	MSD-PG 02830		Pure Green	520nm	15
	MSD-B 02837	MSD-B 02830		Blue	470nm	11
	MSD-W 02837	MSD-W 02830		White	x0.27 y0.25	30
	MSD-SR 02847	MSD-SR 02840		Super Red	640nm	3
	MSD-UR 02847	MSD-UR 02840		Ultra Red	620	9
	MSD-O 02847	MSD-O 02840		Orange	605	5
	MSD-Y 02847	MSD-Y 02840		Yellow	580	5
	MSD-YG 02847	MSD-YG 02840		Yellowish green	570nm	3
	MSD-PG 02847	MSD-PG 02840		Pure Green	520nm	15
	MSD-B 02847	MSD-B 02840		Blue	470nm	11
	MSD-W 02847	MSD-W 02840		White	x0.27 y0.25	30
	MSD-SR 0317	MSD-SR 0310		Super Red	640nm	5
	MSD-UR 0317	MSD-UR 0310		Ultra Red	620	10
	MSD-O 0317	MSD-O 0310		Orange	605	7
	MSD-Y 0317	MSD-Y 0310		Yellow	580	7
	MSD-YG 0317	MSD-YG 0310		Yellowish green	570nm	5
	MSD-PG 0317	MSD-PG 0310		Pure Green	520nm	18
	MSD-B 0317	MSD-B 0310		Blue	470nm	13
	MSD-W 0317	MSD-W 0310		White	x0.27 y0.25	32
	MSD-SR 0327	MSD-SR 0320		Super Red	640nm	5
	MSD-UR 0327	MSD-UR 0320		Ultra Red	620	10
	MSD-O 0327	MSD-O 0320		Orange	605	7
	MSD-Y 0327	MSD-Y 0320		Yellow	580	7
	MSD-YG 0327	MSD-YG 0320		Yellowish green	570nm	5
	MSD-PG 0327	MSD-PG 0320		Pure Green	520nm	18
	MSD-B 0327	MSD-B 0320		Blue	470nm	13
	MSD-W 0327	MSD-W 0320		White	x0.27 y0.25	32
	MSD-SR 0337	MSD-SR 0330		Super Red	640nm	5
	MSD-UR 0337	MSD-UR 0330		Ultra Red	620	10
	MSD-O 0337	MSD-O 0330		Orange	605	7
	MSD-Y 0337	MSD-Y 0330		Yellow	580	7
	MSD-YG 0337	MSD-YG 0330		Yellowish green	570nm	5
	MSD-PG 0337	MSD-PG 0330		Pure Green	520nm	18
	MSD-B 0337	MSD-B 0330		Blue	470nm	13
	MSD-W 0337	MSD-W 0330		White	x0.27 y0.25	32

0.3 Inch Four Digit 	MSD-SR 0347	MSD-SR 0340	 	Super Red	640nm	5
	MSD-UR 0347	MSD-UR 0340		Ultra Red	620	10
	MSD-O 0347	MSD-O 0340		Orange	605	7
	MSD-Y 0347	MSD-Y 0340		Yellow	580	7
	MSD-YG 0347	MSD-YG 0340		Yellowish green	570nm	5
	MSD-PG 0347	MSD-PG 0340		Pure Green	520nm	18
	MSD-B 0347	MSD-B 0340		Blue	470nm	13
MSD-W 0347	MSD-W 0340	White	x0.27 y0.25	32		
0.39 Inch Single Digit 	MSD-SR 03917	MSD-SR 03910	 	Super Red	640nm	3
	MSD-UR 03917	MSD-UR 03910		Ultra Red	620	9
	MSD-O 03917	MSD-O 03910		Orange	605	5
	MSD-Y 03917	MSD-Y 03910		Yellow	580	5
	MSD-YG 03917	MSD-YG 03910		Yellowish green	570nm	3
	MSD-PG 03917	MSD-PG 03910		Pure Green	520nm	15
	MSD-B 03917	MSD-B 03910		Blue	470nm	11
MSD-W 03917	MSD-W 03910	White	x0.27 y0.25	30		
0.39 Inch Single Digit 	MSD-SR 03917	MSD-SR 03910	 	Super Red	640nm	3
	MSD-UR 03917	MSD-UR 03910		Ultra Red	620	9
	MSD-O 03917	MSD-O 03910		Orange	605	5
	MSD-Y 03917	MSD-Y 03910		Yellow	580	5
	MSD-YG 03917	MSD-YG 03910		Yellowish green	570nm	3
	MSD-PG 03917	MSD-PG 03910		Pure Green	520nm	15
	MSD-B 03917	MSD-B 03910		Blue	470nm	11
MSD-W 03917	MSD-W 03910	White	x0.27 y0.25	30		
0.39 Inch Single Digit 	MSD-SR 03917	MSD-SR 03910	 	Super Red	640nm	6
	MSD-UR 03917	MSD-UR 03910		Ultra Red	620	11
	MSD-O 03917	MSD-O 03910		Orange	605	8
	MSD-Y 03917	MSD-Y 03910		Yellow	580	8
	MSD-YG 03917	MSD-YG 03910		Yellowish green	570nm	6
	MSD-PG 03917	MSD-PG 03910		Pure Green	520nm	20
	MSD-B 03917	MSD-B 03910		Blue	470nm	15
MSD-W 03917	MSD-W 03910	White	x0.27 y0.25	35		
0.39 Inch Dual Digit 	MSD-SR 03927	MSD-SR 03920	 	Super Red	640nm	6
	MSD-UR 03927	MSD-UR 03920		Ultra Red	620	11
	MSD-O 03927	MSD-O 03920		Orange	605	8
	MSD-Y 03927	MSD-Y 03920		Yellow	580	8
	MSD-YG 03927	MSD-YG 03920		Yellowish green	570nm	6
	MSD-PG 03927	MSD-PG 03920		Pure Green	520nm	20
	MSD-B 03927	MSD-B 03920		Blue	470nm	15
MSD-W 03927	MSD-W 03920	White	x0.27 y0.25	35		
0.39 Inch Three Digit 	MSD-SR 03937	MSD-SR 03930	 	Super Red	640nm	6
	MSD-UR 03937	MSD-UR 03930		Ultra Red	620	11
	MSD-O 03937	MSD-O 03930		Orange	605	8
	MSD-Y 03937	MSD-Y 03930		Yellow	580	8
	MSD-YG 03937	MSD-YG 03930		Yellowish green	570nm	6
	MSD-PG 03937	MSD-PG 03930		Pure Green	520nm	20
	MSD-B 03937	MSD-B 03930		Blue	470nm	15
MSD-W 03937	MSD-W 03930	White	x0.27 y0.25	35		
0.39 Inch Four Digit 	MSD-SR 03947	MSD-SR 03940	 	Super Red	640nm	6
	MSD-UR 03947	MSD-UR 03940		Ultra Red	620	11
	MSD-O 03947	MSD-O 03940		Orange	605	8
	MSD-Y 03947	MSD-Y 03940		Yellow	580	8
	MSD-YG 03947	MSD-YG 03940		Yellowish green	570nm	6
	MSD-PG 03947	MSD-PG 03940		Pure Green	520nm	20
	MSD-B 03947	MSD-B 03940		Blue	470nm	15
MSD-W 03947	MSD-W 03940	White	x0.27 y0.25	35		

0.56 Inch Dual Digit 	MSD-SR 05627	MSD-SR 05620		Super Red	640nm	7
	MSD-UR 05627	MSD-UR 05620		Ultra Red	620	10
	MSD-O 05627	MSD-O 05620		Orange	605	6
	MSD-Y 05627	MSD-Y 05620		Yellow	580	7
	MSD-YG 05627	MSD-YG 05620		Yellowish green	570nm	8
	MSD-PG 05627	MSD-PG 05620		Pure Green	520nm	20
	MSD-B 05627	MSD-B 05620		Blue	470nm	15
MSD-W 05627	MSD-W 05620	White	x0.27 y0.25	35		
0.56 Inch Three Digit 	MSD-SR 05637	MSD-SR 05630		Super Red	640nm	7
	MSD-UR 05637	MSD-UR 05630		Ultra Red	620	10
	MSD-O 05637	MSD-O 05630		Orange	605	6
	MSD-Y 05637	MSD-Y 05630		Yellow	580	7
	MSD-YG 05637	MSD-YG 05630		Yellowish green	570nm	8
	MSD-PG 05637	MSD-PG 05630		Pure Green	520nm	20
	MSD-B 05637	MSD-B 05630		Blue	470nm	15
MSD-W 05637	MSD-W 05630	White	x0.27 y0.25	35		
0.56 Inch Three Digit 	MSD-SR 05637	MSD-SR 05630		Super Red	640nm	7
	MSD-UR 05637	MSD-UR 05630		Ultra Red	620	10
	MSD-O 05637	MSD-O 05630		Orange	605	6
	MSD-Y 05637	MSD-Y 05630		Yellow	580	7
	MSD-YG 05637	MSD-YG 05630		Yellowish green	570nm	8
	MSD-PG 05637	MSD-PG 05630		Pure Green	520nm	20
	MSD-B 05637	MSD-B 05630		Blue	470nm	15
MSD-W 05637	MSD-W 05630	White	x0.27 y0.25	35		
0.56 Inch Four Digit 	MSD-SR 05647	MSD-SR 05640		Super Red	640nm	7
	MSD-UR 05647	MSD-UR 05640		Ultra Red	620	10
	MSD-O 05647	MSD-O 05640		Orange	605	6
	MSD-Y 05647	MSD-Y 05640		Yellow	580	7
	MSD-YG 05647	MSD-YG 05640		Yellowish green	570nm	8
	MSD-PG 05647	MSD-PG 05640		Pure Green	520nm	20
	MSD-B 05647	MSD-B 05640		Blue	470nm	15
MSD-W 05647	MSD-W 05640	White	x0.27 y0.25	35		
0.56 Inch Four Digit 	MSD-SR 05647	MSD-SR 05640		Super Red	640nm	7
	MSD-UR 05647	MSD-UR 05640		Ultra Red	620	10
	MSD-O 05647	MSD-O 05640		Orange	605	6
	MSD-Y 05647	MSD-Y 05640		Yellow	580	7
	MSD-YG 05647	MSD-YG 05640		Yellowish green	570nm	8
	MSD-PG 05647	MSD-PG 05640		Pure Green	520nm	20
	MSD-B 05647	MSD-B 05640		Blue	470nm	15
MSD-W 05647	MSD-W 05640	White	x0.27 y0.25	35		
0.56 Inch Four Digit 	MSD-SR 05647	MSD-SR 05640		Super Red	640nm	7
	MSD-UR 05647	MSD-UR 05640		Ultra Red	620	10
	MSD-O 05647	MSD-O 05640		Orange	605	6
	MSD-Y 05647	MSD-Y 05640		Yellow	580	7
	MSD-YG 05647	MSD-YG 05640		Yellowish green	570nm	8
	MSD-PG 05647	MSD-PG 05640		Pure Green	520nm	20
	MSD-B 05647	MSD-B 05640		Blue	470nm	15
MSD-W 05647	MSD-W 05640	White	x0.27 y0.25	35		
0.8 Inch Single Digit 	MSD-SR 0817	MSD-SR 0810		Super Red	640nm	8
	MSD-UR 0817	MSD-UR 0810		Ultra Red	620	13
	MSD-O 0817	MSD-O 0810		Orange	605	8
	MSD-Y0817	MSD-Y 0810		Yellow	580	9
	MSD-YG 0817	MSD-YG 0810		Yellowish green	570nm	6
	MSD-PG 0817	MSD-PG 0810		Pure Green	520nm	25
	MSD-B 0817	MSD-B 0810		Blue	470nm	27
MSD-W 0817	MSD-W 0810	White	x0.27 y0.25	40		