






L-TTM Technologies, North American Facilities UL File Listing and Marking Summary

David Backen, Nov. 9, 2015

TTM Facility	UL File #	Comments & TTM Contact	Trade-mark (note 4)	Mfr. ID (note 1)
Chippewa Falls, WI	E43620	TTM Corporate file. CF, UT, SA, SC & ST are listed as approved manufacturing sites. Chippewa Falls is the Applicant. David Backen		CF
Logan, UT				UT
Santa Ana, CA				SA
Santa Clara, CA				SC
Stafford, CT				ST
Logan, UT	E62128	Gary Robertson		UT
San Diego, CA	E36959	SD and S are listed as approved manufacturing sites. Eric Voisine		SD
Stafford, CT				S
Santa Clara, CA	E67876	Ron Meier		N/A
Shanghai, China	N/A	Assembly operation (no UL files). Grace Yu	N/A	N/A
Stafford Springs, CT	E227860	Assembly operation, no Mfr. UL marks are added to product at this time (note 6). Harry Craft Jr.	N/A	N/A
Santa Ana, CA	E94188	John Palmer		N/A

UL marking example. The following example represents the UL mark used for TTM PCB's built to UL file E43620 by TTM's Chippewa Falls Division. The "**TTM1**" mark represents file # E43620. The Mfr. ID "**CF**" represents the Chippewa Falls site (note 1). The Type Designator "**M30-0**" represents a specific set of materials, processing, design parameters listed in the file.

UL marking example:  **CF M30-0**

Notes:

1. Mfr. ID's are not necessary when only one Mfr. site is listed in a particular file. When multiple Mfr. sites are listed in a particular file it is necessary to add a Mfr. ID after the Trademark. The following Mfr. ID's will be used when necessary:
Logan = **UT**, San Diego = **SD**, Santa Clara = **SC**, Stafford = **ST** or **S**, Chippewa Falls = **CF**, Santa Ana = **SA**.
2. It is not necessary to mark the UL Recognized Component Mark (mirrored image **UR**) on PCB's. This is an optional marking requirement for PCB's (UL product category ZPMV2). As a general rule we will not include the **UR** marking however, if a customer specifically requests to include this mark we may do so.
3. When a UL **Type Designator** (e.g. M30-0) is marked on a PCB this provides traceability to the UL file parameters including the flame rating (V-0, V-1, etc.). There are no UL requirements to specifically mark "**94V-0**" although this is some times requested by our customers. If a customer specifically requires a **94V-0** marking we can do so assuming we have a V-0 rating. For traceability purposes we must also include our normal UL marking including the **Type Designator** (ref. UL marking example).