

# Instant MTBF Data Input Sheet – Mil-Spec / MIL-HDBK-217F N1/2

Probabilistic Software, Inc.  
<http://www.e-MTBF.com>

<b>System / Equipment Name:</b>	
<b>Assembly Name:</b>	
<b>Quantity Of This Assembly:</b>	
<b>Parts List Number:</b>	
<b>Environment:</b>	<b>Circle One: GB, GF, GM, NS, NU, AIC, AIF AUC, AUF, ARW, SF, MF, ML Or CL</b>
<b>Parts Quality:</b>	<b>Mil-Spec / MIL-HDBK-217F (N1/2)</b>

Quantity	Description
-----	<b>Bipolar Integrated Circuits</b>
	IC / Bipolar, Digital 1-100 Gates
	IC / Bipolar, Digital 101-1000 Gates
	IC / Bipolar, Digital 1001-3000 Gates
	IC / Bipolar, Digital 3001-10000 Gates
	IC / Bipolar, Digital 10001-30000 Gates
	IC / Bipolar, Digital 30001-60000 Gates
	IC / Bipolar, PLA, PAL 1-200 Gates
	IC / Bipolar, PLA, PAL 201-1000 Gates
	IC / Bipolar, PLA, PAL 1001-5000 Gates
-----	<b>MOS Integrated Circuits</b>
	IC / MOS, Digital 1-100 Gates
	IC / MOS, Digital 101-1000 Gates
	IC / MOS, Digital 1001-3000 Gates
	IC / MOS, Digital 3001-10000 Gates
	IC / MOS, Digital 10001-30000 Gates
	IC / MOS, Digital 30001-60000 Gates
	IC / MOS, PLA, PAL 1-16K Gates
	IC / MOS, PLA, PAL 16K-64K Gates
	IC / MOS, PLA, PAL 64K-256K Gates
	IC / MOS, PLA, PAL 256K-1M Gates
-----	<b>Bipolar &amp; MOS Linear Integrated Circuits</b>
	IC / Linear 1-100 Transistors
	IC / Linear 101-300 Transistors

	IC / Linear 301-1K Transistors
	IC / Linear 1001-10K Transistors
-----	<b>Bipolar Microprocessors</b>
	IC / Bipolar, 8 Bit Microprocessor
	IC / Bipolar, 16 Bit Microprocessor
	IC / Bipolar, 32 Bit Microprocessor
-----	<b>MOS Microprocessors</b>
	IC / MOS, 8 Bit Microprocessor
	IC / MOS, 16 Bit Microprocessor
	IC / MOS, 32 Bit Microprocessor
-----	<b>MOS ROM</b>
	IC / MOS, ROM 1-16K Bits
	IC / MOS, ROM 16K-64K Bits
	IC / MOS, ROM 64K-256K Bits
	IC / MOS, ROM 256K-1M Bits
-----	<b>MOS PROM</b>
	IC / MOS, PROM 1-16K Bits
	IC / MOS, PROM 16K-64K Bits
	IC / MOS, PROM 64K-256K Bits
	IC / MOS, PROM 256K-1M Bits
-----	<b>MOS DRAM</b>
	IC / MOS, DRAM 1-16K Bits
	IC / MOS, DRAM 16K-64K Bits
	IC / MOS, DRAM 64K-256K Bits
	IC / MOS, DRAM 256K-1M Bits
-----	<b>MOS SRAM</b>
	IC / MOS, SRAM 1-16K Bits
	IC / MOS, SRAM 16K-64K Bits
	IC / MOS, SRAM 64K-256K Bits
	IC / MOS, SRAM 256K-1M Bits
-----	<b>Bipolar ROM/PROM</b>
	IC / Bipolar, ROM/PROM 1-16K Bits
	IC / Bipolar, ROM/PROM 16K-64K Bits
	IC / Bipolar, ROM/PROM 64K-256K Bits

	IC / Bipolar, ROM/PROM 256K-1M Bits
-----	<b>Bipolar SRAM</b>
	IC / Bipolar, SRAM 1-16K Bits
	IC / Bipolar, SRAM 16K-64K Bits
	IC / Bipolar, SRAM 64K-256K Bits
	IC / Bipolar, SRAM 256K-1M Bits
-----	<b>GaAs MMIC</b>
	IC / GaAs, MMIC 1-100 Elements
	IC / GaAs, MMIC 101-1000 Elements
-----	<b>GaAs Digital</b>
	IC / GaAs, Digital 1-1000 Elements
	IC / GaAs, Digital 1001-10K Elements
-----	<b>Diodes</b>
	Diode / General Purpose Analog
	Diode / Switching
	Diode / Fast Recovery Power Rectifier
	Diode / Power Rectifier/Schottky Power
	Diode / Transient Suppressor/Varistor
	Diode / Voltage Ref./Reg.(Avalanche & Zener)
	Diode / Current Regulator
	Diode / Si Impatt ( $f \leq 35\text{GHz}$ )
	Diode / Gunn/Bulk Effect
	Diode / Tunnel and Back (Including Mixers, Detectors)
	Diode / PIN
	Diode / Schottky Barrier and Point Contact (Including Detectors)
	Diode / Varactor (Including Step Recovery)
	Diode / Thyristor/SCRs, Triacs
-----	<b>Transistors</b>
	Transistor / NPN/PNP ( $f < 200\text{MHz}$ )
	Transistor / Power NPN/PNP ( $f < 200\text{MHz}$ )
	Transistor / Si. Field Effect ( $f \leq 400\text{MHz}$ ) (FET)
	Transistor / Si. Field Effect ( $f > 400\text{MHz}$ ) (FET)
	Transistor / GaAs Field Effect ( $P < 100\text{mW}$ ) (FET)
	Transistor / GaAs Field Effect ( $P \geq 100\text{mW}$ ) (FET)

	Transistor / Unijunction
	Transistor / RF, Low Noise ( $f > 200\text{MHz}$ , $P < 1\text{W}$ ) (Bipolar, Microwave)
	Transistor / RF, Power ( $P \geq 1\text{W}$ ) (Bipolar, Microwave)
-----	<b>Opto-Electronic Devices</b>
	Opto-Electronic / Photodetector
	Opto-Electronic / Opto-Isolator
	Opto-Electronic / Emitter (Light Emitting Diode, LED and IRLD)
	Opto-Electronic / Alphanumeric Display
	Opto-Electronic / Laser Diode, GaAs/Al GaAs
	Opto-Electronic / Laser Diode, In GaAs/In GaAsP
-----	<b>Resistors</b>
	Resistor / RCR, Fixed, Carbon Composition, Insulated
	Resistor / RC, Fixed, Carbon Composition, Insulated
	Resistor / RLR, Fixed, Film, Insulated
	Resistor / RL, Fixed, Film, Insulated
	Resistor / RM, Fixed, Film, Chip (SMT)
	Resistor / RNR, Fixed, Film
	Resistor / RNC, Fixed, Film
	Resistor / RNN, Fixed, Film
	Resistor / RN, Fixed, Film, High Stability
	Resistor / RD, Fixed, Film, Power Type
	Resistor / RZ, Fixed, Film, Resistor Network
	Resistor / RBR, Fixed, Wirewound, Accurate
	Resistor / RB, Fixed, Wirewound, Accurate
	Resistor / RWR, Fixed, Wirewound, Power Type
	Resistor / RW, Fixed, Wirewound, Power Type
	Resistor / RER, Fixed, Wirewound, Power Type, Chassis Mounted
	Resistor / RE, Fixed, Wirewound, Power Type, Chassis Mounted
	Resistor / RTH, Thermally Sensitive, Insulated, Bead, Disk and Rod Types
	Resistor / RTR, Variable, Wirewound, Lead Screw Actuated
	Resistor / RT, Variable, Wirewound, Lead Screw Actuated
	Resistor / RR, Variable, Wirewound, Precision
	Resistor / RA, Variable, Wirewound, Semi-Precision, Low Operating Temperature
	Resistor / RK, Variable, Wirewound, Semiprecision

	Resistor / RP, Variable, Wirewound, Power Type
	Resistor / RJR, Variable, Non-Wirewound, Adjustable Type
	Resistor / RJ, Variable, Non-Wirewound, Adjustable Type
	Resistor / RV, Variable, Composition, Low Precision
	Resistor / RQ, Variable, Non-Wirewound, Film, Precision
	Resistor / RVC, Variable, Non-Wirewound, Film
-----	<b>Capacitors</b>
	Capacitor / CP, Paper, By-Pass, Filter, Blocking, DC
	Capacitor / CA, Paper, By-Pass, Radio Interference Reduction AC and DC
	Capacitor / CZR, Paper, Metallized Paper, Metallized Plastic, RFI Feed-Through
	Capacitor / CZ, Paper, Metallized Paper, Metallized Plastic, RFI Feed-Through
	Capacitor / CPV, Paper and Plastic Film
	Capacitor / CQR, Paper and Plastic Film
	Capacitor / CQ, Paper and Plastic Film
	Capacitor / CHR, Metallized Paper, Paper-Plastic, Plastic
	Capacitor / CH, Metallized Paper, Paper-Plastic, Plastic
	Capacitor / CFR, Plastic, Metallized Plastic
	Capacitor / CRH, Super Metallized Plastic
	Capacitor / CMR, Mica, Dipped
	Capacitor / CM, Dipped or Molded
	Capacitor / CB, Mica, Button Style
	Capacitor / CWR, Fixed, Electrolytic, Tantalum, Chip (SMT)
	Capacitor / CYR, Glass
	Capacitor / CY, Glass
	Capacitor / CK, Ceramic, General Purpose
	Capacitor / CKR, Ceramic, General Purpose
	Capacitor / CCR, Ceramic, Temperature Compensating
	Capacitor / CC, Ceramic, Temperature Compensating
	Capacitor / CDR, Ceramic, Chip (SMT)
	Capacitor / CSR, Tantalum, Electrolytic, Solid
	Capacitor / CLR, Tantalum, Electrolytic, Non-Solid
	Capacitor / CL, Tantalum, Electrolytic, Non-Solid
	Capacitor / CUR, Electrolytic, Aluminum Oxide
	Capacitor / CU, Electrolytic, Aluminum Oxide

	Capacitor / CE, Aluminum, Polarized, Dry Electrolyte
	Capacitor / CV, Variable, Ceramic
	Capacitor / PC, Variable, Piston Type, Tubular Trimmer
	Capacitor / CT, Variable, Air Trimmer
	Capacitor / CG, Gas or Vacuum Dielectric, Fixed & Var., Ceramic or Glass Envelope
-----	<b>Inductive Devices</b>
	Transformer / Low Power Pulse
	Transformer / Audio
	Transformer / High Power Pulse and Power, Filter
	Filter /
	Transformer / Intermediate Frequency (IF), Radio Frequency (RF) and Discriminator
	Coil / Fixed, Radio Frequency
	Coil / Molded, Radio Frequency
	Coil / Variable, Radio Frequency
-----	<b>Rotating Devices</b>
	Motor /
	Synchro /
	Resolver /
-----	<b>Elapsed Time Meters</b>
	Meter / Elapsed Time, AC
	Meter / Elapsed Time, Inverter Driver
	Meter / Elapsed Time, Commutator DC
-----	<b>Relays</b>
	Relay / General Purpose
	Relay / Contactor, High Current
	Relay / Latching
	Relay / Reed
	Relay / Thermal, Bi-Metal
	Relay / Meter Movement
	Relay / Solid State
	Relay / Hybrid and Solid State Time Delay
-----	<b>Switches</b>
	Switch / Toggle or Push Button
	Switch / Basic Sensitive

	Switch / Rotary Wafer
	Switch / Thumbwheel
	Switch / Circuit Breaker, Thermal
	Switch / Circuit Breaker, Magnetic
-----	<b>Connectors</b>
	Connector / Circular, Rack or Panel
	Connector / Coaxial
	Connector / Printed Circuit Board
	Connector / IC Socket
-----	<b>Interconnect Assemblies and Single Connections</b>
	Interconnect Assembly / Printed Circuit Board (PCB)
	Single Connections / Hand Solder, Without Wrapping
	Single Connections / Hand Solder, With Wrapping
	Single Connections / Crimp
	Single Connections / Weld
	Single Connections / Solderless Wrap
	Single Connections / Clip Termination
	Single Connections / Reflow Solder
-----	<b>Panel Meters</b>
	Meter / Panel, DC Ammeter or Voltmeter
	Meter / Panel, AC Ammeter or Voltmeter
-----	<b>Quartz Crystals</b>
	Crystal / Quartz
-----	<b>Lamps</b>
	Lamp / Incandescent, AC
	Lamp / Incandescent, DC
-----	<b>Electronic Filters</b>
	Electronic Filter / Ceramic Ferrite
	Electronic Filter / Discrete LC Components
	Electronic Filter / Discrete LC and Crystal Components
-----	<b>Fuses</b>
	Fuse /

