H60VG3_6C Processing History

Structure Gradient (MV/m) and Trip Rate/3 (#/hr)

Time with RF On (hr)
H60VG3_6C Processing History

![Graph showing the integrated number of trips over time with RF on (hr). The x-axis represents time with RF on (hr), ranging from 0 to 400. The y-axis represents the integrated number of trips, ranging from 0 to 4000.]
Breakdown Statistics for H60VG3(6C)

- Gradient (MV/m)
- Missing Transmitted Energy (100% ~ 50, Threshold = 7)
- Time with RF On (hr)

- 60 Trips / 63 Hrs
- 18 Trips / 62 Hrs
- 27 Trips / 46 Hrs

- 400 ns
- 240 ns
- 400 ns - Regulated
Spitfest Statistics for H60VG3(6C) at 65 MV/m

400 ns

240 ns

400 ns - Regulated

Number of Trips

Time Between Trips (Minutes)
(Times > 30 Plotted at 30)
Breakdown Locations in H60VG3R
(RF Processed to ~74 MV/m)

Gradient = 63-67 MV/m, Body Rate = 1/25 Hr
(Meets < 1/10 Hr NLC/JLC Requirement)

Gradient = 68-71 MV/m, Body Rate = 20/25 Hr
Breakdown Statistics for H60VG3(6C) at 70-80 MV/m, 400 ns Pulse Width
Leading Edge Timing

- Missing Energy vs. Breakdown Position (cell #)
- Missing Energy vs. Time of Breakdown (ns)
- Reflected Power vs. Reflected Phase (deg)
- Breakdown Position (cell #) vs. Time (hr)
Breakdown Statistics for H60VG3(6C)
(27, 28, 29, 32, 37, 38, 39, 40)
at 70-80 MV/m, 400 ns Pulse Width
Leading Edge Timing
(Green = After Pulse Timing)
Breakdown Statistics for H60VG3(6C) at 70-80 MV/m, 400 ns Pulse Width

Leading Edge Timing

After Pulse Timing

Position of Breakdown (ns) vs. Phase of Reflected RF (degrees) for Leading Edge Timing and After Pulse Timing.
Breakdown Statistics for H60VG3(6C) at 65-70 MV/m, 400 ns Pulse Width Leading Edge Timing (87 Events / 97 Hours)
Breakdown Statistics for H60VG3(6C) at 65-70 MV/m, 400 ns Pulse Width

Leading Edge Timing

After Pulse Timing

Phase of Reflected RF (degrees)

Position of Breakdown (ns)

Position of Breakdown (ns)

Phase of Reflected RF (degrees)
Breakdown Statistics for H60VG3(6C)
(30, 31, 33, 34, 41, 42)
at 65-70 MV/m, 400 ns Pulse Width
Leading Edge Timing
(Green = After Pulse Timing)
Breakdown Locations for T53VG3MC at 92 MV/m
(100 Hours with RF On at 60 Hz)
Breakdown Statistics for H60VG3(6C) at 65 MV/m, 240 ns Pulse Width Leading Edge Timing
Breakdown Statistics for H60VG3(6C)
at 65 MV/m, 400 ns Pulse Width
Leading Edge Timing
Breakdown Statistics for H60VG3(6C) at 65 MV/m, Leading Edge Timing

240 ns Pulse Width

400 ns – Regulated
Breakdown Statistics for H60VG3(6C) at 65 MV/m, Leading Edge Timing

240 ns Pulse Width

400 ns Pulse Width