



QA Technology Company, Inc.

Applications Note

High Pre-load Spring Force Probes (‘E’ Springs)

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In today’s challenges of penetrating through Pb-free, OSP, No-Clean and other highly contaminated PCB targets, QA is pleased to offer our high pre-load spring probes. These high pre-load springs offer a higher force during the first 2/3rds of actuation resulting in better probe tip penetration. The force is also more consistent when the probe travel is affected by variations due to board flex, fixture tolerances and target heights.

These new spring forces, designated as ‘E’ springs, are available in our 039-16, 050-R25, 050-T25, 075-25, 100-25, X39-25, X50-25 and X75-25 series and in six tip styles (43-chisel, 44-crown, 61-blade, 63-spear, 6R-razor, and 91-blade).

Please contact QA Technology for samples or additional information.

'E' Spring Force in Ounces (Grams)			
Series	Pre-Load	2/3 Stroke	Mechanical Life
039-16	3.8 (108)	5.4 (153)	100K min @ .107 [2.72] max
050-T25	4.2 (119)	8.0 (227)	10K min @ .167 [4.24] max
050-R25	5.5 (156)	8.0 (227)	50K min @ .167 [4.24] max
075-25	5.0 (142)	8.0 (227)	50K min @ .167 [4.24] max
100-25	6.0 (170)	8.0 (227)	1M min @ .167 [4.24] max
X39-25	4.2 (119)	8.0 (227)	10K min @ .167 [4.24] max
X50-25	5.0 (142)	8.0 (227)	50K min @ .167 [4.24] max
X75-25	6.0 (170)	8.0 (227)	1M min @ .167 [4.24] max

