

STANDARD
TUNE

24 Jul 03 .0922

!jgr/ref19ne1885q4d50a20 Don's "standard" tune, 1st 1/2 only

REFERENCE PARTICLE 1.885 19.0 4.0 ;

P X 0.0025 .020 ;
P Y 0.0025 .020 ;

D P 0.05 ;

A = -0.09380 ; Q1
B = 0.08538 ; Q2
X = 0.07876 ; Q3
Y = -0.10400 ; Q4
Z = 0.05729 ; Q5
U = 0.01770 ; SX1
W = 0.003725 ; SX2

DRIFFT LENGTH 1.06885 ;

M Q 0.2523 = A 0.053975 ; Q1
F F 3 ;

P E ; Q1 exit envelope (4" circle)
DRIFFT LENGTH 0.256925 ;

P E ; Q2 entrance envelope (6" circle)
M M 0.33385 = B 4.567E-03 0 0.07935 ; Q2

F F ;

DRIFFT LENGTH .638075 ;

P E ; MD1 entrance envelope (6" circle)
F F 1 5.8 0 ;
M S 1.000 50 .05 ; MD1

F F 1 5.8 0 ;

DRIFFT LENGTH 0.3079 ;

P E ; Steerer entrance envelope (4" circle)
DRIFFT LENGTH .20 ;

M M 0.1941 0.0 = U 0.0 0.0795 ; SX1
DRIFFT LENGTH 0.1581 ;

P E ; Q3 entrance envelope (6" circle)
F F 3 ;
M Q 0.3338 = X 0.079375 ;

F F 3 ;

P E ; Q4 entrance envelope (6" circle)
DRIFFT LENGTH 0.2162 ;

F F 3 ;
M Q 0.3338 = Y 0.079375 ;

F F 3 ;

P E ; Q5 entrance envelope (6" circle)
DRIFFT LENGTH 0.2162 ;

F F 3 ;
M Q 0.3338 = Z 0.079375 ;

F F 3 ;

M M 0.1941 0.0 = W 0.0 0.0795 ; SX2
DRIFFT LENGTH 0.8059 ;

P E ; ED1 entrance envelope (+- 5cm in X)
F F 3 ;
E S 2 20 0.05 0 0 0 ;

F F 3 ;

DRIFFT LENGTH 1.05 ;
SLITM focus condition ;

P E ;
P N ;
END ;

CUSTOMER REACTION-SPECIFIC
 CALCULATION ORDER 2 2 ;
 REFERENCE PARTICLE 6.85 16.0 5.0 ;
 TUNE

C12/7f1ta160685q5d43a21.gios = 12C(a,g)160 ref + 7fits w/(Y,B) = 0.5 weight
 P X 0.0025 .021 ;
 P Y 0.0025 .021 ;
 D P 0. 0.043 ;
 A = -0.1330V ; Q1
 B = 0.1160V ; Q2
 X = 0.1200V ; Q3
 Y = -0.1510V ; Q4
 Z = 0.0810V ; Q5
 U = 0.0360V ; SX1
 W = 0.0050V ; SX2
 DRIFT LENGTH 1.06885 ;
 F E 3 ;
 M Q 0.2523 = A 0.053975 ; Q1
 F E 3 ;
 P E ; Q1 exit envelope (4" circle)
 DRIFT LENGTH 0.256925 ;
 P E ; Q2 entrance envelope (6" circle)
 M M 0.33385 = B 4.567E-03 0 0.07935 ; Q2
 F E ;
 P E ; Q2 entrance envelope (6" circle)
 M M 0.33385 = B 4.567E-03 0 0.07935 ; Q2
 F E ;
 DRIFT LENGTH .638075 ;
 P E ; MD1 entrance envelope (6" circle)
 M S 1.000 50 .05 ; MD1
 F E 1 5.8 0 ;
 F E 1 5.8 0 ;
 DRIFT LENGTH 0.3079 ;
 F (X,A) ; SLITC FOCUS
 F (Y,B) ;
 DRIFT LENGTH .20 ;
 P E ; Steerer entrance envelope (4" circle)
 DRIFT LENGTH .5109 ;
 M M 0.1941 0.0 = U 0.0 0.0795 ; SX1
 DRIFT LENGTH 0.1581 ;
 P E ; Q3 entrance envelope (6" circle)
 F E 3 ;
 M Q 0.3338 = X 0.079375 ;
 F E 3 ;
 DRIFT LENGTH 0.2162 ;
 P E ; Q4 entrance envelope (6" circle)
 F E 3 ;
 M Q 0.3338 = Y 0.079375 ;
 F E 3 ;
 DRIFT LENGTH 0.2162 ;
 P E ; Q5 entrance envelope (6" circle)
 F E 3 ;
 M Q 0.3338 = Z 0.079375 ;
 F E 3 ;
 DRIFT LENGTH 0.1581 ;
 M M 0.1941 0.0 = W 0.0 0.0795 ; SX2
 DRIFT LENGTH 0.8059 ;
 P E ; ED1 entrance envelope (+/- 5cm in X)
 F E 3 ;
 E S 2 20 0.05 0 0 0 ;
 F E 3 ;
 DRIFT LENGTH 1.05 ;
 F (X,A) ; SLITM focus conditions
 F (X,D) ;
 F (Y,B) 0.5 ;
 F (X,AA) ;
 F (X,AD) ;
 P E ;
 P N ;
 END ;

DRAKBN 610S TRANSMISSION PREDICTIONS

I $120(\alpha, \beta)$ DEFINING SCALED $120(\alpha, \beta)$ STANDARD SCALED $120(\alpha, \beta)$ STANDARD SCALED $120(\alpha, \beta)$ CUSTOM TRUE
 ELEMENT (MAXIMUM ENVELOPE \pm mm)
 I $E_H = 1.885$ II $E_H = 13.5$ III $E_H = 6.85$ IV $E_H = 6.85$
 DA = .05, .02 .037, .09 .043, .021 .043, .021

Q1 36x23 34x22 37x24 37x24 37x24 1.00

Q2 56x15 53x15 58x16 59x16 59x16 1.00

MD1 48x10 48x10 50x11 54x9 54x9

SM1 11x11 11x11 11x11 4x15 4x15

SX1 1.44

Q3 54x9 52x19 55x18 48x25 48x25 1.12

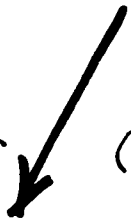
Q4 48x37 46x36 50x35 43x50 43x50 1.07

Q5 64x31 61x30 67x29 58x41 58x41 1.05

SX2 1.00

ED1 49x17 47x17 53x17 49x15 49x15

SLTM 3x11 3x10 3x11 7x9 7x9 (50x50)



Clipping is produced at E21 (only).

Good 29 July 03