1004B QUAD DEFOCUSSING

77.0° 44U
70.0° 40U
52.5° 30U
35.0° 20U
17.5° 10U

R4BQDF3

Node Card
Address: 11
PS=3, DxHPSIC=4, SXT=2

DX Heater P.S. Interface Chassis
Node Card Ports: 11-4, 5, 6, 7

Quench Protection
QP05
yo4-qf8-qp
QPAIC: AI
QPAIC Port: J6B

1u Spacer

Y004-PSFA
yo4-qf8-ps
200A @ 15V
In 1: yo4.qf8.i-YQID
In 1 wfg: cfe-4b-ps2.d1
In 2: y4.q89.i-YQID
In 2 wfg: cfe-4b-ps2.d0
S = R19-B-J12
I = R19-B-J13
V = R19-B-J14
D = R19-B-J15

Node Card Port: 10-5
R = 8.71 mOhms

2u Spacer

Quench Protection
QP04
y4-q89-qp
QPAIC: AI
QPAIC Port: J6A

Y03/04-PSDA
Y4-q89-ps
+/-300A @ +/-15V
In 1: y4.q89i-YQID
wfg: cfe-4b-ps2.d0
S = R19-B-J8
I = R19-B-J9
V = R19-B-J10
D = R19-B-J11

Node Card Port: 10-6
R = 6.12 mOhms

2u Spacer

R4BQDF2

Node Card
Address: 10
PS=8, QPAIC=1, Bypass=1

QPAIC-AI

Node Card Port: 10-12

Bypass Chassis
Node Card Port: 10-11

Quench Protection
QP05
yi3-qf9-qp
QPAIC: AI
QPAIC Port: J7A

1u Spacer

YI03-PSFA
yi3-qf9-ps
200A @ 15V
In 1: yi3.qf9.i-YQID
In 1 wfg: cfe-4b-ps2.e0
In 2: yo4.q89.i-YQID
In 2 wfg: cfe-4b-ps2.d0
S = R19-C-J0
I = R19-C-J1
V = R19-C-J2
D = R19-C-J3

Node Card Port: 10-3
R = 8.55 mOhms

1u Spacer

Quench Protection
QP05
bo3-qf8-qp
QPAIC: AI
QPAIC Port: J2B

1u Spacer

B003-PSFA
bo3-qf8-ps
200A @ 15V
In 1: bo3.qf8.i-BQID
In 1 wfg: cfe-4b-psl.e0
In 2: bi4.q89.i-BQID
In 2 wfg: cfe-4b-psl.d0
S = R07-C-J0
I = R07-C-J1
V = R07-C-J2
D = R07-C-J3

Node Card Port: 10-4
R = 7.52 mOhms

1u Spacer

R4BQDF1

2u Spacer

Timing Resolver For QPAIC-AI

Quench Protection
QP05
bi4-qf9-qp
QPAIC: AI
QPAIC Port: J3B

1u Spacer

BI04-PSFA
bi4-qf9-ps
200A @ 15V
In 1: bi4.qf9.i-BQID
In 1 wfg: cfe-4b-psl.d1
In 2: b4.q89.i-BQID
In 2 wfg: cfe-4b-psl.d0
S = R07-B-J12
I = R07-B-J13
V = R07-B-J14
D = R07-B-J15

Node Card Port: 10-1
R = 7.36 mOhms

2u Spacer

Quench Protection
QP04
b4-q89-qp
QPAIC: AI
QPAIC Port: J3A

B03/04-PSDA
b4-q89-ps
+/-300A @ +/-15V
In: b4.q89.i-BQID
wfg: cfe-4b-psl.d0
S = R07-B-J8
I = R07-B-J9
V = R07-B-J10
D = R07-B-J11

Node Card Port: 10-2
R = 5.17 mOhms

1u Spacer

R4BYQF6

Quench Protection
QP09
yo4-qd7-qp
QPAIC: AI
QPAIC Port: J7B

(NOT TO SCALE)

Y004-PS7
yo4-qd7-ps
600A @ 20V
In: yo4.qd7.i-YQIF
wfg: cfe-4b-ps2.kl
S = R19-F-J4
I = R19-F-J5
V = R19-F-J6
D = R19-F-J7

Node Card Port: 13-10
R = 3.25 mOhms

(NOT TO SCALE)

R4BYQF5

Quench Protection
QP09
yi3-qf7-qp
QPAIC: AI
QPAIC Port: J8A

(NOT TO SCALE)

YI03-PS7
yi3-qf7-ps
600A @ 20V
In 1: yi3.qf7.i-YQIF
wfg: cfe-4b-ps2.il
S = R19-E-J4
I = R19-E-J5
V = R19-E-J6
D = R19-E-J7

Node Card Port: 13-9
R = 3.20 mOhms

(NOT TO SCALE)

R4BBQF6

Quench Protection
QP09
bi4-qf7-qp
QPAIC: AI
QPAIC Port: J4A

(NOT TO SCALE)

BI04-PS7
bi4-qf7-ps
600A @ 20V
In: bi4.qf7.i-BQIF
wfg: cfe-4b-psl.kl
S = R07-F-J4
I = R07-F-J5
V = R07-F-J6
D = R07-F-J7

Node Card Port: 12-10
R = 3.50 mOhms

(NOT TO SCALE)

R4BBQF5

Quench Protection
QP09
bo3-qd7-qp
QPAIC: AI
QPAIC Port: J4B

(NOT TO SCALE)

B003-PS7
bo3-qd7-ps
600A @ 20V
In 1: bo3.qd7.i-BQIF
wfg: cfe-4b-psl.il
S = R07-E-J4
I = R07-E-J5
V = R07-E-J6
D = R07-E-J7

Node Card Port: 12-9
R = 3.45 mOhms

(NOT TO SCALE)

COLLIDER-ACCELERATOR DEPARTMENT
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

SIZE	DRAWING NUMBER:	REV.
C	24060034	A

Q.A. CATEGORY: A–3 | SCALE: 1/1 | WEIGHT: NA | SHEET 2 OF 7

REV A | SHT 2 OF 7 | DWG NO 24060034