

CLAIMS

1. A terminal comprising:

a receiving section adapted to receive a downlink control channel consisting of a plurality of control channel elements, CCEs, to which a plurality of resource
5 element groups, REGs, are mapped in a control resource set; and

a control section adapted to control a demodulation process based on a demodulation reference signal that is allocated in at least one resource element included in a plurality of REG groups, each REG group including a plurality of REGs in the control resource set, and a same precoding being applied to different REG
10 groups within a set of consecutive resource blocks in the control resource set.

2. A base station comprising:

a control section adapted to control transmission of a downlink control channel consisting of a plurality of control channel elements, CCEs, to which a
15 plurality of resource element groups, REGs, are mapped in a control resource set; and

a transmitting section adapted to transmit the downlink control channel,

wherein the control section controls to allocate a demodulation reference signal to at least one resource element included in a plurality of REG groups, each
20 REG group including a plurality of REGs in the control resource set, and a same precoding being applied to different REG groups within a set of consecutive resource blocks in the control resource set.

3. A radio communication method for a terminal, comprising:

25 receiving a downlink control channel consisting of a plurality of control channel elements, CCEs, to which a plurality of resource element groups, REGs, are mapped in a control resource set; and

controlling a demodulation process based on a demodulation reference signal that is allocated in at least one resource element included in a plurality of REG groups, each REG group including a plurality of REGs in the control resource set, and a same precoding being applied to different REG groups within a set of consecutive resource

5 blocks in the control resource set.