

ADJUSTMENT

DJ-C1T/C1E

1) Settings

Power supply voltage 4.0V DC

Item	Procedure	Set to
1. Reference voltage	Tune in 144.95 MHz and set P/D voltage to 1.7 V. (VCO case attached) Adjust L214	1.7 ± 0.1 V
2. Reference frequency	Transmit on 145.05 MHz and set reference frequency to 145.05 MHz. Adjust TC202	$145.05 \text{ MHz} \pm 0.5 \text{ Hz}$
3. Transmission power	Transmit on 145.05 MHz and set transmission power to 300 mW. Adjust VR201	$300 \text{ mW} \pm 20 \text{ mW}$
4. MIC modulation deviation	Transmit on 145.05 MHz and input a 1 kHz - 50 mV low-frequency signal to the MIC input pin. Then, set modulation to 4.5 kHz. Adjust VR202	4.5 ± 0.1 kHz

2) Checks

Item	Requirement	Factory-clearance
1. Transmission frequency	$145.05 \text{ MHz} \pm 200 \text{ Hz}$	$\pm 500 \text{ Hz}$
2. Transmission power	On 145.05 MHz transmission frequency $300 \text{ mW} \pm 30 \text{ mW}$	Same as on left
3. Modulation Deviation	On 145.05 MHz transmission frequency <ul style="list-style-type: none">• With 1 kHz - 50 mV AF signal $4.5 \text{ kHz} \pm 0.2 \text{ kHz}$• With 67/250.4 Hz tone frequency 0.4 ~ 1.2 kHz• With 1750 Hz tone burst (E/EA specification only) 2.4 ~ 3.6 kHz	Same as on left Same as on left Same as on left

Item	Requirement	Factory-clearance
4. Spurious emission	On 145.05 MHz transmission frequency Max. -55 dB	Same as on left
5. Transmission S/N	On 145.05 MHz transmission frequency Min. 33 dB (Measuring instrument's audio filter OFF at 0.3 ~ 3 kHz)	Same as on left
6. Reception sensitivity	On 144.95 MHz reception frequency FM Max. -9 dB μ (EMF) (12 dB SINAD) • On 129.95 MHz reception frequency AM Max. 5 dB μ (EMF) (10 dB S/N)	Same as on left
7. Audio (32Ω)	• Volume-control VR7 Distortion Max. 4% • Volume-control VR8 Output Min. 20 mW	Same as on left
8. Reception S/N	On 144.95 MHz reception frequency Min. 40 dB	Same as on left
9. Unwanted radiation	On 145.995 MHz reception frequency -55 dB and below	Same as on left
10. Squelch	a) Squelch fully opens at 0 level. b) Squelch opens when receiving -8 dB μ reference signal at squelch level 2.	Same as on left

DJ-C4T/C4E/C4C

1) Settings

Power supply voltage 4.0V DC	For	T-version	F1 = 445.05MHz	F2 = 444.95MHz
		E-version	F1 = 435.05MHz	F2 = 434.95MHz
		C-version	F1 = 433.90 MHz	F2 = 433.80 MHz

Item	Procedure	Set to
1. Reference frequency	Transmit on F1 and set reference frequency to F1. Adjust TC201	$F1 \pm 100 \text{ Hz}$
2. Transmission power	Transmit on F1 and set transmission power to 300 mW*. Adjust VR201	300 mW* $\pm 20 \text{ mW}$
3. MIC modulation deviation	Transmit on F1 and input a 1 kHz - 50 mV AF signal to the MIC input pin. Then, set modulation to 4.5 kHz. Adjust VR202	$4.5 \text{ kHz} \pm 0.1 \text{ kHz}$

2) Checks

Item	Requirement	Factory-clearance
1. Transmission frequency	$F1 \pm 500\text{Hz}$	$\pm 1 \text{ kHz}$
2. Transmission power	On F1 transmission frequency $300 \text{ mW}^* \pm 30 \text{ mW}$	Same as on left
3. Modulation Deviation	On F1 transmission frequency <ul style="list-style-type: none"> • With 1 kHz - 50 mV AF signal $4.5 \text{ kHz} \pm 0.2 \text{ kHz}$ • With 67/250.4 Hz CTCSS tone frequency 0.4 ~ 1.2 kHz • With 1750 Hz tone burst (E/EA versions only) 2.4 ~ 3.6 kHz 	Same as on left Same as on left Same as on left
4. Spurious emission	On F1 transmission frequency Max. -55 dB	Same as on left
5. Transmission S/N	On F1 transmission frequency Min. 33 dB (Measuring instrument's audio filter OFF at 0.3 ~ 3 kHz)	Same as on left

* 10mW +- 2mW for DJ-C4C

Item	Procedure	Set to
6. Reception sensitivity	<ul style="list-style-type: none"> • On F2 reception frequency FM Max. -8 dBμ (EMF) 	Same as on left
7. Audio (32Ω)	<ul style="list-style-type: none"> • Volume-control VR7 Distortion Max. 4% • Volume-control VR8 Output Min. 20 mW 	Same as on left
8. Reception S/N	<ul style="list-style-type: none"> On F2 reception frequency Min. 40 dB 	Same as on left
9. Unwanted radiation	<ul style="list-style-type: none"> On F2 reception frequency -55 dB and below 	Same as on left
10. Squelch	<ul style="list-style-type: none"> a) Squelch fully opens at 0 level. b) Squelch opens when receiving -8 dB reference signal at squelch level 2. 	Same as on left
		Same as on left