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"JRC" Brand Quartz Crystal Oscillator ICs

Internal Capacitor and Feedback Resistor

	MAX FREQUENCY	PARAMETER	SYMBOL	TYP	UNIT
FUNDAMENTAL	50MHz	Internal Capacitor	Cg/Cd	-----	-----
		Feedback Resistor	Rf	227	kΩ
	50MHz	Internal Capacitor	Cg/Cd	12.5	pF
		Feedback Resistor	Rf	227	kΩ
	50MHz	Internal Capacitor	Cg/Cd	21 / 23	pF
		Feedback Resistor	Rf	227	kΩ
	50MHz	Internal Capacitor	Cg/Cd	23	pF
		Feedback Resistor	Rf	227	kΩ
3rd OVERTONE	35MHz	Internal Capacitor	Cg/Cd	28	pF
		Feedback Resistor	Rf	4.7	kΩ
	50MHz	Internal Capacitor	Cg/Cd	20	pF
		Feedback Resistor	Rf	4.7	kΩ
	75MHz	Internal Capacitor	Cg/Cd	17	pF
		Feedback Resistor	Rf	4.7	kΩ
5th OVERTONE	120MHz	Internal Capacitor	Cg/Cd	-----	-----
		Feedback Resistor	Rf	-----	-----

Fundamental quartz crystal oscillator ICs include four types of devices:

1) No capacitor, the device suffix is "P"
2) 12.5pF for each internal capacitor (Cg/Cd), the device suffix is "K" or "W"
3) 21pF for Cg and 23pF for Cd, the devices are NJU6321, NJU6361 and NJU6323
4) 23pF for each internal capacitor

3rd Overtone quartz crystal oscillator ICs consist of three types of devices:

1) 28pF for each internal capacitor, the maximum frequency is 35MHz
2) 20pF for each internal capacitor, the maximum frequency is 50MHz
3) 17pF for each internal capacitor, the maximum frequency is 75MHz

5th Overtone quartz crystal oscillators (120MHz) have no internal capacitor or resistor.

For additional information, please refer to the NewJRC SEMICONDUCTOR "C-MOS IC" DATABOOK, Section 5, CRYSTAL OSCILLATOR Line-up.