

+start(stage: Stage): void +main(args: String[*]): void

Bandas

(from resCalc)

-valoresDeBandas: Map -valoresMultiplicador: Map -valoresDePPM: Map valoresDeTolerancias: Map

«constructor»+Bandas() +getValoresDeBandas(): Map +getValoresMultiplicador(): Map +getValoresDePPM(): Map +getValoresDeTolerancias(): Map +getListaBandas(): String[*] +getListaMults(): String[*] +getListaPPMs(): String[*] +getListaTolerancias(): String[*]

-bandas

SetSpinners (from resCalc)

«constructor»+SetSpinners() +setBandsSpinner(spinner: Spinner): void +setMultSpinner(spinner: Spinner): void

+setToleranceSpinner(spinner: Spinner): void +setPPMSpinner(spinner: Spinner): void

InitialScreenController (from resCalc)

-resBvColorsBtn: Button -resByValuesBtn: Button

+goToResByColorsScreen(event: ActionEvent): void

SingleStage (from resCalc)

+stage: Stage

«constructor»-SingleStage(stage: Stage) +getSingleStage(stage: Stage): SingleStage

«enumeration» NoDeBandas (from resCalc)

CUATRO_BANDAS CINCO BANDAS SEIS BANDAS

Calculate

(from resCalc)

+calculateFourBandsResistor(band1: String, band2: String, mult: String, tolerance: String): Resistencia

+calculateFiveBandsResistor(band1: String, band2: String, band3: String, mult: String, tolerance: String): Resistencia

-calculate

+calculateSixBandsResistor(band1: String, band2: String, band3: String, mult: String, tolerance: String, ppm: String): Resistencia

ResByColorsScreenController (from resCalc)

-fourBandsChoice: RadioButton -fiveBandsChoice: RadioButton -sixBandsChoice: RadioButton

-band1Choice: Spinner -band2Choice: Spinner -band3Choice: Spinner -multChoice: Spinner -toleranceChoice: Spinner

ppmChoice: Spinner resTheoValue: Label toleranceValue: Label

-ppmValue: Label -ppmValueLabel: Label -resExpValue: TextField -detailsBtn: Button

-goToInitialScreenBtn: Button -calcResTheoValue: Button

+initialize(arg0: URL, arg1: ResourceBundle): void

+checkBandsSelected(event: ActionEvent): void

+calculate(event: ActionEvent): void

+goToInitialScreen(event: ActionEvent): void

-setSixBandsCalc(): void -setFiveBandsCalc(): void -setFourBandsCalc(): void

-noDeBandas: int -banda1: double

-banda2: double

-banda3: double

-multiplicador: double

-tolerancia: double

-ppm: double

-resistenciaTotal: double

«constructor»+Resistencia(noDeBandas: int, banda1: double, banda2: double, multiplicador: double, tolerancia: double)

«constructor»+Resistencia(noDeBandas: int, banda1: double, banda2: double, banda3: double, multiplicador: double, tolerancia: double)

Resistencia

(from resCalc)

«constructor»+Resistencia(noDeBandas: int, banda1: double, banda2: double, banda3: double, multiplicador: double, tolerancia: double, ppm: double) +setResistenciaTotal(): void

+getValorResistencia(): String

+getValorTolerancia(): String

+getValorPPM(): String

validateInnuts

ValidateInputs (from resCalc)

+checkEmptyInputs(band1: String, band2: String, mult: String, tolerancia: String): boolean

+checkEmptyInputs(band1: String, band2: String, band3: String, mult: String, tolerancia: String): boolean

+checkEmptyInputs(band1: String, band2: String, band3: String, mult: String, tolerancia: String, ppm: String): boolean