

Innovative Service Around the Globe

YAGEO

SMD Resistors + MLCC

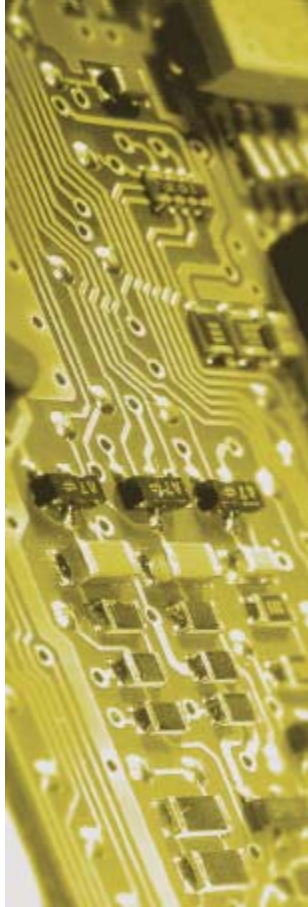
High Frequency Products

2005



Ph_icomp

www.yageo.com





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Phycomp



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MLCC

NPO Ceramic Chips Series

GENERAL PURPOSE
MEDIUM VOLTAGE
HIGH VOLTAGE
MICROWAVE

Surface Mount Chip



Size _ 0402 to 1812

Capacitance Range _ 0.47pF to 22nF

Capacitance Tolerance _

C < 10pF : $\pm 0.1\text{pF}$, $\pm 0.25\text{pF}$, $\pm 0.5\text{pF}$

C $\geq 10\text{pF}$: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$

Rated Working Voltage _

16Vdc to 4000Vdc

Operating Temp. Range _

-55°C to +125°C

Packaging _ Reel / Bulkcase

X5R Ceramic Chips Series

HIGH CAPACITANCE

Surface Mount Chip



Size _ 0402 to 1812

Capacitance Range _ 56nF to 47uF

Capacitance Tolerance _ $\pm 10\%$, $\pm 20\%$

Rated Working Voltage _

6.3Vdc to 25Vdc

Operating Temp. Range _

-55°C to +85°C

Packaging _ Reel / Bulkcase

X7R Ceramic Chips Series

GENERAL PURPOSE
MEDIUM VOLTAGE
HIGH VOLTAGE
LOW INDUCTANCE
HIGH CAPACITANCE

Surface Mount Chip



Size _ 0402 to 1812

Capacitance Range _ 100pF to 4.7uF

Capacitance Tolerance _ $\pm 10\%$, $\pm 20\%$

Rated Working Voltage _

10Vdc to 2000Vdc

Operating Temp. Range _

-55°C to +125°C

Packaging _ Reel / Bulkcase



MLCC

Y5V ceramic chips series

**GENERAL PURPOSE
HIGH CAPACITANCE**

Surface Mount Chip



Size _ 0402 to 1210

Capacitance Range _ 10nF to 22uF

Capacitance Tolerance _
±20%, -20% to +80%

Rated Working Voltage _
6.3Vdc, 50Vdc

Operating Temp. Range _
-25°C to +85°C

Packaging _ Reel / Bulkcase

Z5U ceramic chips series

GENERAL PURPOSE
Surface Mount Chip



Size _ 0603 to 1210

Capacitance Range _ 10nF to 470nF

Capacitance Tolerance _
±20%, -20% to +80%

Rated Working Voltage _
25Vdc, 50Vdc

Operating Temp. Range _
+10°C to +85°C

Packaging _ Reel / Bulkcase

Arrays series

**NPO, X7R, Y5V CERMIC CHIPS
MULTI-VALUE CAPACITORS ARRAY**
Surface Mount Chip



Size _ 0508, 0612

Capacitance Range _ 10pF to 100nF

Capacitance Tolerance _
NPO: ±5%, ±10%

X7R: ±10%, ±20%

Y5V: -20% to +80%

Rated Working Voltage _
16Vdc to 50Vdc

Packaging _ Reel



MLCC

Ultra small MLCCs series**NPO, X5R, X7R, Y5V CERAMIC CHIPS**

Surface Mount Chip



Size _ 0201

Capacitance Range _ 1pF to 100nF

Capacitance Tolerance _

NPO: $\pm 2\%$, $\pm 5\%$ X5R/X7R: $\pm 10\%$, $\pm 20\%$ Y5V: -20% to $+80\%$

Rated Working Voltage _

6.3Vdc to 50Vdc

Packaging _ Reel

EMI filter capacitors series**X2Y SERIES**

Surface Mount Chip



Size _ 0603 to 1206

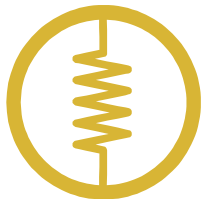
Capacitance Range _ 4.7nF to 820nF

Capacitance Tolerance _ $\pm 20\%$

Rated Working Voltage _

10Vdc to 100Vdc

Packaging _ Reel



Chip Resistors

General Purpose

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24+E96) _

1 Ω to 22M Ω /Jumper

Rated Power @ 70°C _ $\frac{1}{20}$ to 1W

Temp. Coefficient _

± 100 , ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _ $\pm 1\%$, $\pm 5\%$

Max. Working Voltage _

25Vdc to 200Vdc

Max. Overload Voltage _

50Vdc to 400Vdc

Case Sizes _ 0201 to 2512

Low Ohmic Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24) _

0.01 Ω to 0.99 Ω

Rated Power @ 70°C _ $\frac{1}{20}$ to 1W

Temp. Coefficient _

± 100 to ± 1500 ppm/ $^{\circ}$ C

Resistance Tolerance _ $\pm 1\%$, $\pm 5\%$

Case Sizes _ 0402 to 2512

Low Values for Current

Sensing Applications

Current Sensing Series

VERY LOW OHMIC



Resistance Range (E24+E96) _

0.001 Ω to 0.005 Ω

Rated Power @ 70°C _ 1W

Temp. Coefficient _

± 100 , ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _

$\pm 1\%$, $\pm 5\%$

Case Sizes _ 2512

Low Values for Current

Sensing Applications



Chip Resistors

High precision High stability Series

THIN FILM CHIP

Surface Mount



Resistance Range (E24+E96) _
 1Ω to $1.5M\Omega$
Rated Power @ 70°C _ $\frac{1}{16}$ to $\frac{1}{4}$ W
Temp. Coefficient _
 ± 10 to ± 50 ppm/°C
Resistance Tolerance _
 $\pm 0.1\%$, $\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$

Max. Working Voltage _
 50Vdc
Max. Overload Voltage _
 100Vdc
Case Sizes _ 0402 to 1210

Arrays

0402 * 2 Series 0402 * 4 Series

THICK FILM ARRAY

Convex 0404/0408 Surface Mount



Resistance Range (E24+E96) _
 10Ω to $1M\Omega$ /Jumper
Number of Resistors _ 2 and 4
Rated Power Per Element _ $\frac{1}{16}$ W
Temp. Coefficient _ ± 200 ppm/°C

Resistance Tolerance _
 $\pm 1\%$, $\pm 5\%$
Max. Working Voltage _
 50Vdc
Max. Overload Voltage _
 100Vdc
Circuit Types _ Isolated

0603 * 4 Series

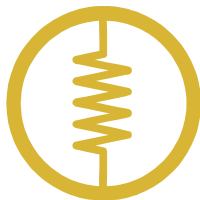
THICK FILM ARRAY

Convex 0612 Surface Mount



Resistance Range (E24+E96) _
 10Ω to $1M\Omega$ /Jumper
Number of Resistors _ 4
Rated Power Per Element _ $\frac{1}{16}$ W
Temp. Coefficient _ ± 200 ppm/°C

Resistance Tolerance _
 $\pm 1\%$, $\pm 5\%$
Max. Working Voltage _
 50Vdc
Max. Overload Voltage _
 100Vdc
Circuit Types _ Isolated



Arrays

0603 * 4 Series

THICK FILM ARRAY
Concave 0612 Surface Mount



Resistance Range (E24+E96) _
10 Ω to 1M Ω /Jumper
Number of Resistors _ 4
Rated Power Per Element _ $\frac{1}{16}$ W
Temp. Coefficient _ ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _
 $\pm 1\%$, $\pm 5\%$
Max. Working Voltage _
50Vdc
Max. Overload Voltage _
100Vdc
Circuit Types _ Isolated

0402 * 8 Series

THICK FILM ARRAY
Convex 0616 Surface Mount



Resistance Range (E24+E96) _
10 Ω to 1M Ω /Jumper
Number of Resistors _ 8
Rated Power Per Element _ $\frac{1}{16}$ W
Temp. Coefficient _ ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _
 $\pm 1\%$, $\pm 5\%$
Max. Working Voltage _
50Vdc
Max. Overload Voltage _
100Vdc
Circuit Types _ Isolated

Network

10P8R Series

THICK FILM ARRAY
Convex 0612 Surface Mount



Resistance Range (E24) _
10 Ω to 100K Ω
Number of Resistors _ 8
Rated Power Per Element _ $\frac{1}{32}$ W
Temp. Coefficient _ ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _
 $\pm 5\%$
Max. Working Voltage _
25Vdc
Max. Overload Voltage _
50Vdc
Circuit Types _ Dual Common



Application Specific

Au-termination Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24+E96) _

10 Ω to 10M Ω /Jumper

Rated Power @ 70°C _ $\frac{1}{10}$ to $\frac{1}{4}$ W

Temp. Coefficient _

± 100 to $-100/+500$ ppm/ $^{\circ}$ C

Resistance Tolerance _ $\pm 1\%$, $\pm 5\%$

Max. Working Voltage _

50Vdc to 200Vdc

Max. Overload Voltage _

50Vdc to 400Vdc

Case Sizes _ 0603, 1206

High Voltage Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24+E96) _

100k Ω to 27M Ω

Rated Power @ 70°C _ $\frac{1}{8}$ to 1W

Temp. Coefficient _

± 200 , ± 300 ppm/ $^{\circ}$ C

Resistance Tolerance _ $\pm 1\%$, $\pm 5\%$

Max. Working Voltage _

250Vdc to 400Vdc

Max. Overload Voltage _

300Vdc to 2500Vdc

Case Sizes _

0805, 1206, 2512

Trimable Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24+E96) _

1 Ω to 10M Ω

Rated Power @ 70°C _ $\frac{1}{10}$ to $\frac{1}{4}$ W

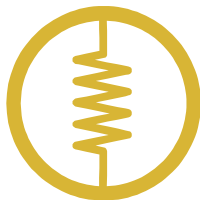
Temp. Coefficient _

± 100 , ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _

0/-20%, 0/-30%

Case Sizes _ 0603 to 1206



Application Specific

Fusible Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24) _
1 Ω to 510 Ω

Rated Power @ 70°C _ $\frac{1}{4}$ W

Temp. Coefficient _
 ± 200 to ± 250 ppm/ $^{\circ}$ C

Resistance Tolerance _
 $\pm 5\%$

Case Sizes _ 0603, 1206

Low Values for Current
Sensing Applications

Surge Series

THICK FILM CHIP

Glass Passivated Surface Mount



Resistance Range (E24) _
1 Ω to 100k Ω

Rated Power @ 70°C _ $\frac{1}{4}$ W

Temp. Coefficient _ ± 200 ppm/ $^{\circ}$ C

Resistance Tolerance _ 5%

Max. Working Voltage _
200Vdc

Max. Overload Voltage _
400Vdc

Case Sizes _ 1206



Chip Resistors RF Attenuator

ATV321 Series

Attenuator

Glass Passivated Surface Mount



Case Size _ 0404

Attenuation Range _ 1 dB to 20 dB

Attenuation Tolerance _

1 to 5dB : ± 0.3 dB/ ± 0.2 dB

6 to 10dB : ± 0.5 dB/ ± 0.3 dB

15dB : ± 1 dB/ ± 0.5 dB

20dB : ± 2 dB/ ± 1.0 dB

Frequency Range _

1 to 10 dB : DC to 2.5 GHz

15 and 20 dB : DC to 2.0 GHz

Max. Permissible Voltage _

50V

Power Rating _ 40 mW

Temp. Range _ -55 to 125 °C

Packing _ Tape



High Frequency Antenna

UHF-Antenna

CERAMIC



Size (mm) _ 3.75 x 6.8 x 0.9
***Frequency Range** _ 421 to 445 MHz
Bandwidth _ > 20 MHz
Polarization _ Linear

Azimuth _ Omni-Directional
***VSWR** _ < 2.0
Temp. Range _ -55 to 125°C
Packing _ Bulk, Tape

***Depends On The YAGEO Demoboard**

TDMA Antenna

CERAMIC



Size (mm) _ 16.5 x 14 x 0.9
***Frequency Range** _ 850 to 950 MHz
Bandwidth _ 100 MHz
***Gain (Max.)** _ 1.5 dBi
Polarization _ Linear

Azimuth _ Omni-Directional
***VSWR** _ < 2.0
Temp. Range _ -55 to 125°C
Packing _ Bulk, Tape

***Depends On The YAGEO Demoboard**

Dualband Antenna

(900/1800 MHz) Metal



Size (mm) _ 24 x 10 x 6
***Frequency Range** _ 800 to 960 MHz, 1710 to 1880 MHz
Bandwidth _ 80 MHz, 170 MHz
***Gain (Max.)** _ 0 to 0.5 dBi, 0.5 to 1 dBi
Polarization _ Linear

Azimuth _ Omni-Directional
***VSWR** _ < 4.0
Temp. Range _ -55 to 125°C
Packing _ Bulk

***Depends On The YAGEO Demoboard**



High Frequency Antenna

Dualband Antenna

(900/1800/ MHz) CERAMIC



Size (mm) _ 21 x 12 x 0.9

***Frequency Range** _

880 to 960 MHz, 1710 to 1880 MHz

Bandwidth _ 80 MHz, 170 MHz

***Gain (Max.)** _ 0 to 0.5 dBi, 0.5 to 1 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

***VSWR** _ < 2.7

Temp. Range _ -55 to 125°C

Packing _ Bulk, Tape

***Depends On The YAGEO Demoboard**

Tripleband Antenna

(900/1800/1900 MHz) PCB VERTICAL



Size (mm) _ 30 x 9.4 x 0.8

***Frequency Range** _

800 to 960 MHz, 1710 to 1880 MHz

Bandwidth _ 80 MHz, 280 MHz

***Gain (Max.)** _ 0 to 0.5 dBi, 0.5 to 1 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

***VSWR** _ < 2.5

Temp. Range _ -55 to 125°C

Packing _ Bulk

***Depends On The YAGEO Demoboard**

GPS Antenna

(LP Mode)

(1.575 GHz)



Size (mm) _ 12.5 x 6.6 x 0.9

***Frequency Range** _ 1.58 GHz

Bandwidth _ 100 MHz

***Gain (Max.)** _ 1.5 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

***VSWR** _ < 2.0

Temp. Range _ -55 to 125°C

Packing _ Bulk

***Depends On The YAGEO Demoboard**

For order codes, please check the CD-Rom or visit www.yageo.com



High Frequency Antenna

DECT / WCDMA

ANTENNA



Size (mm) _ 8.8 x 6.8 x 0.9
 *Frequency Range _ 1.88 to 2.1 GHz
 Bandwidth _ 100 MHz
 *Gain (Max.) _ 2 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 125°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna

LONG SHAPE



Size (mm) _ 7.8 x 3.6 x 0.9
 *Frequency Range _ 2.45 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.1 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 125°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna

LONG SHAPE



Size (mm) _ 7.8 x 3.6 x 0.9
 *Frequency Range _ 2.60 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.1 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 125°C
 Packing _ Tape

*Depends On The YAGEO Demoboard



High Frequency Antenna

Bluetooth Antenna

LONG SHAPE



Size (mm) _ 7.8 x 3.6 x 0.9

*Frequency Range _ 2.70 GHz

Bandwidth _ >100 MHz

*Gain (Max.) _ 4.1 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

*VSWR _ < 2.0

Temp. Range _ -55 to 125°C

Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 7.3 x 5.5 x 1.3

*Frequency Range _ 2.45 GHz

Bandwidth _ >100 MHz

*Gain (Max.) _ 1.2 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

*VSWR _ < 2.0

Temp. Range _ -55 to 125°C

Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 7.3 x 5.5 x 1.3

*Frequency Range _ 2.60 GHz

Bandwidth _ >100 MHz

*Gain (Max.) _ 1.2 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

*VSWR _ < 2.0

Temp. Range _ -55 to 125°C

Packing _ Tape

*Depends On The YAGEO Demoboard

For order codes, please check the CD-Rom or visit www.yageo.com



High Frequency Antenna

Bluetooth Antenna



Size (mm) _ 7.3 x 5.5 x 1.3
 *Frequency Range _ 2.70 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 1.2 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 125°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 7.3 x 5.5 x 1.3
 *Frequency Range _ 2.80 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 1.2 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 125°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.10 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

*Depends On The YAGEO Demoboard



High Frequency Antenna

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.45 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

***Depends On The YAGEO Demoboard**

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.50 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

***Depends On The YAGEO Demoboard**

IEEE 802.11b & 11a Dual Band

(2.45/5.2 GHz)



Size (mm) _ 8.7 x 8.0 x 0.9
 *Frequency Range _ 2.45 / 5.20 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 3.5 dBi / 1.5 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.5
 Temp. Range _ -55 to 85°C
 Packing _ Tape

***Depends On The YAGEO Demoboard**



High Frequency Antenna

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.20 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.30 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

*Depends On The YAGEO Demoboard

Bluetooth Antenna



Size (mm) _ 5.3 x 2.0 x 1.3
 *Frequency Range _ 2.40 GHz
 Bandwidth _ >100 MHz
 *Gain (Max.) _ 4.0 dBi
 Polarization _ Linear

Azimuth _ Omni-Directional
 *VSWR _ < 2.0
 Temp. Range _ -55 to 85°C
 Packing _ Tape

*Depends On The YAGEO Demoboard



High Frequency Antenna

Tripleband Antenna

(900/1800/1900 MHz)

WITH CABLE & CONNECTOR



Size (mm) _ 35 x 6.0 x 0.4

*Frequency Range _

880 to 960 MHz, 1710 to 1880 MHz

Bandwidth _ 80 MHz, 170 MHz

*Gain (Max.) _ 0 to 0.5 dBi, 0.5 to 1 dBi

Polarization _ Linear

Azimuth _ Omni-Directional

*VSWR _ < 2.0

Temp. Range _ -55 to 125°C

Packing _ Bulk, Tape

High Frequency Filter / Balun

*Depends On The YAGEO Demoboard

LOSS PASS FILTER



Size (mm) _ 1.6 x 0.8 x 0.65

Frequency Range _ 2.45 GHz

Pass Band _ 2400 to 2500 MHz

Impedance _ 50 Ω

Insertion Loss (Max.) _ 0.45 dB

Ripple (Max.) _ 0.6 dB

VSWR _ 1.5

Attenuation _

25 dB Min@5000 MHz

18 dB Min@7500 MHz

Packing _ Tape

LOSS PASS FILTER



Size (mm) _ 2.0 x 1.25 x 0.85

Frequency Range _ 2.45 GHz

Pass Band _ 2400 to 2500 MHz

Impedance _ 50 Ω

Insertion Loss (Max.) _ 0.5 dB

Ripple (Max.) _ 0.6 dB

VSWR _ 1.8

Attenuation _

27 dB Min@5000 MHz

25 dB Min@7500 MHz

25 dB Min@10,000 MHz

Packing _ Tape



High Frequency Filter / Balun

BAND PASS FILTER



Size (mm) _ 2.5 x 2.0 x 0.95
 Frequency Range _ 2.45 GHz
 Pass Band _ 2400 to 2500 MHz
 Impedance _ 50 Ω
 Insertion Loss (Max.) _ 1.5 dB
 Ripple (Max.) _ 0.6 dB

VSWR _ 2.0
 Attenuation _
 40 dB Min@880-960 MHz
 30 dB Min@1710-1785 MHz
 30 dB Min@1850-1910 MHz
 20 dB Min@4800-5000 MHz
 30 dB Min@7200-7500 MHz
 Packing _ Tape

BAND PASS FILTER



Size (mm) _ 2.0 x 1.25 x 0.85
 Frequency Range _ 2.45 GHz
 Pass Band _ 2400 to 2500 MHz
 Impedance _ 50 Ω
 Insertion Loss (Max.) _ 2.0 dB
 Ripple (Max.) _ 0.6 dB

VSWR _ 2.0
 Attenuation _
 -40 dB Min@1.0-1.6 GHz
 10 dB Min@2.0 GHz
 40 dB Min@4.9 GHz
 20 dB Min@7.5 GHz
 Packing _ Tape

BAND PASS FILTER



Size (mm) _ 2.5 x 2.0 x 1.1
 Frequency Range _ 2.45 GHz
 Pass Band _ 2400 to 2500 MHz
 Impedance _ 50 Ω
 Insertion Loss (Max.) _ 1.5 dB
 Ripple (Max.) _ 0.6 dB

VSWR _ 2.0
 Attenuation _
 40 dB Min@880-960 MHz
 30 dB Min@1710-1785 MHz
 20dB@1850-1910 MHz
 30dB@4800-5000 MHz
 20 dB Min@7200-7500 MHz
 Packing _ Tape



High Frequency Filter / Balun

BAND PASS FILTER

Size (mm) _ 2.0 x 1.2 x 1.0
 Frequency Range _ 5.0 GHz
 Pass Band _ 4900 to 5950 MHz
 Impedance _ 50 Ω
 Insertion Loss (Max.) _ 1.5 dB

Ripple (Max.) _ 0.6 dB
 VSWR _ 2.0
 Attenuation _
 30 dB Min@1280-3000 MHz
 25 dB Min@3300-4000 MHz
 25 dB Min@9800-11,900 MHz
 Packing _ Tape

BPF & BALUN COMBO

Size (mm) _ 2.5 x 2.0 x 1.2
 Frequency Range _ 2.40 GHz
 Pass Band _ 2400 to 2500 MHz
 Impedance _ 50/100 Ω
 Insertion Loss (Max.) _ 2.0 dB
 Ripple (Max.) _ 0.5 dB
 Amplitude Balance (Max.) _ 10 dB

Phase Differntial _
 180 $\pm$ 8 degree
 Attenuation _
 35 dB Min@880-960 MHz
 22 dB Min@1710-1910 MHz
 20 dB Min@5000 MHz
 30 dB Min@7500 MHz
 Packing _ Tape

BALUN

Size (mm) _ 2.0 x 1.25 x 0.85
 Frequency Range _ 2.40 GHz
 Pass Band _ 2400 to 2500 MHz
 Impedance _ 50/50 Ω
 Insertion Loss (Max.) _ 1.0 dB

Ripple (Max.) _ 0.6 dB
 VSWR _ 2.0
 Amplitude Balance (Max.) _
 2.0 dB
 Phase Differntial _
 180 $\pm$ 8 degree
 Packing _ Tape



High Frequency Filter / Balun

BALUN



Size (mm) _ 2.0 x 1.25 x 0.85
Frequency Range _ 2.40 GHz
Pass Band _ 2400 to 2500 MHz
Impedance _ 50/100 Ω
Insertion Loss (Max.) _ 1.0 dB

Ripple (Max.) _ 0.6 dB
VSWR _ 2.0
Amplitude Balance _ 2.0 dB
Phase Difference (Max.) _
 180 $\pm$ 10 degree
Packing _ Tape

BALUN



Size (mm) _ 2.0 x 1.25 x 0.85
Frequency Range _ 2.40 GHz
Pass Band _ 2400 to 2500 MHz
Impedance _ 50/200 Ω
Insertion Loss (Max.) _ 1.0 dB

Ripple (Max.) _ 0.6 dB
VSWR _ 2.0
Amplitude Balance _ 2.0 dB
Phase Difference (Max.) _
 180 $\pm$ 10 degree
Packing _ Tape

DIPLEXER



Size (mm) _ 2.0 x 1.25 x 0.8
Frequency Range _ 2.40/5.0 GHz
Pass Band _ 2400 to 5000 MHz
Insertion Loss (Max.) _ 0.7 dB

VSWR _ 2.0
Attenuation _
 17 dB Min@4880-6000 MHz
 20 dB Min@7200-7500 MHz
Packing _ Tape



High Frequency Filter / Balun**DIPLEXER**

Size (mm) _ 2.0 x 1.25 x 0.8
Frequency Range _ 2.40/5.0 GHz
Pass Band _ 4900 to 5900 MHz
Insertion Loss (Max.) _ 1.6 dB

VSWR _ 2.0
Attenuation _
17 dB Min@1800-2500 MHz
20 dB Min@10,300-10,700 MHz
Packing _ Tape

YAGEO - A GLOBAL COMPANY

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