



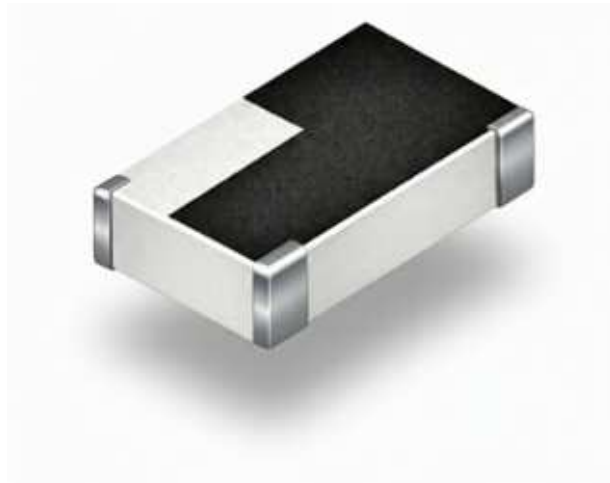
Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

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General Information



GENERAL DESCRIPTION

The ITF SMD Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

The ITF Coupler is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- 4G LTE
- 5G LTE
- Base Stations.
- Automotive
- Industrial
- Mobile Communications
- Satellite TV Receivers
- GPS
- Vehicle Location Systems
- Wireless LAN's

FEATURES

- Miniature Size: 0603
- Frequency Range: 800MHz - 3GHz
- Characteristic Impedance: 50Ω
- Operating / Storage Temp.: -40°C to +85°C
- Power Rating: 3W Continuous
- Low Profile
- Rugged Construction
- Taped and Reeled

HOW TO ORDER

CP	0603	X	****	X	S	TR
Style	Size	Type	Frequency MHz	Sub-Type	Termination Code	Packaging Code
Directional Coupler	0603				W = Sn90, Pb10 **S= Sn100	TR = Tape and Reel
Not RoHS Compliant						
						**RoHS compliant



For RoHS compliant products, please select correct termination style.

QUALITY INSPECTION

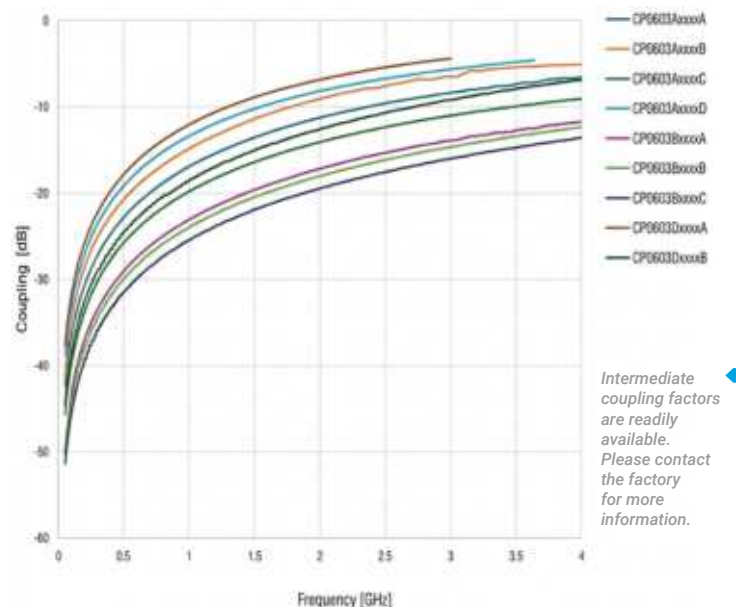
Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R , 4 hours

TERMINATION

Sb90Pb10 or Lead-Free Sn100 Nickel/Solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

CP0603 - TYPE SELECTION CHART



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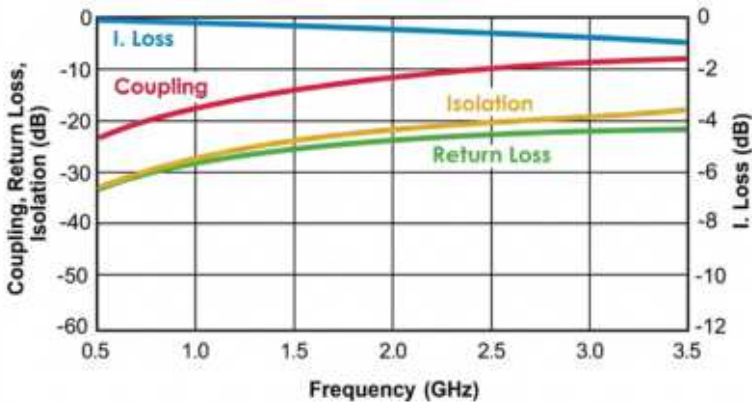
CP0603AxxxxASTR



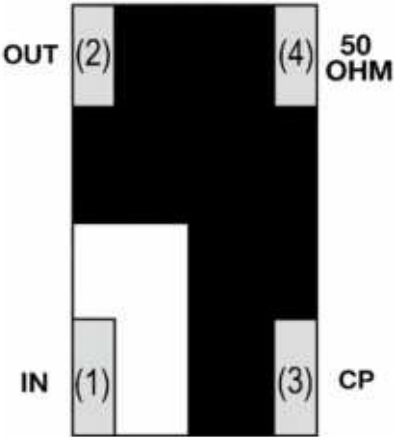
Coupler P/N CP0603AxxxxASTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]
CP0603A0836ASTR	824 - 849	-18.5±1	-0.25	-21
CP0603A0881ASTR	869 - 894	-18.5±1	-0.25	-21
CP0603A0902ASTR	890 - 915	-18±1	-0.25	-21
CP0603A0947ASTR	935 - 960	-17.5±1	-0.25	-21
CP0603A0897ASTR	880 - 915	-18±1	-0.25	-21
CP0603A0942ASTR	925 - 960	-17.5±1	-0.25	-21
CP0603A1441ASTR	1429 - 1453	-14±1	-0.4	-21
CP0603A1747ASTR	1710 - 1785	-12.5±1	-0.6	-21
CP0603A1842ASTR	1805 - 1880	-12±1	-0.6	-21
CP0603A1880ASTR	1850 - 1910	-12±1	-0.6	-21
CP0603A1960ASTR	1930 - 1990	-11.5±1	-0.65	-21
CP0603A1907ASTR	1895 - 1920	-12±1	-0.6	-21
CP0603A1890ASTR	1880 - 1900	-12±1	-0.6	-21
CP0603A2442ASTR	2400 - 2484	-10±1	-0.85	-21

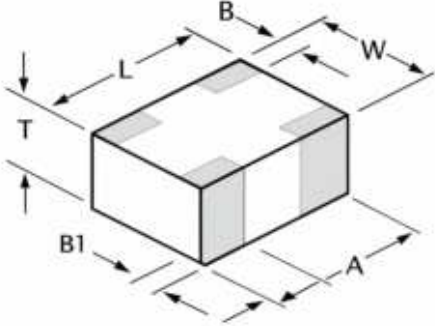
Important: Couplers can be used at any frequency within the indicated range.



TERMINALS (TOP VIEW)

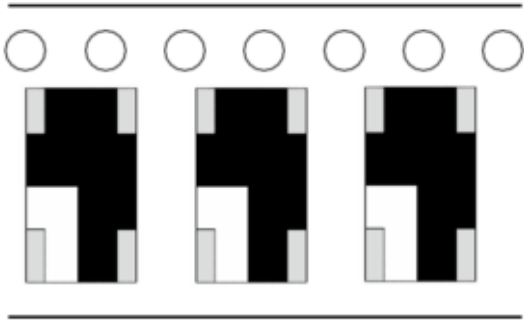


DIMENSIONS: millimeters (inches) (Bottom View)

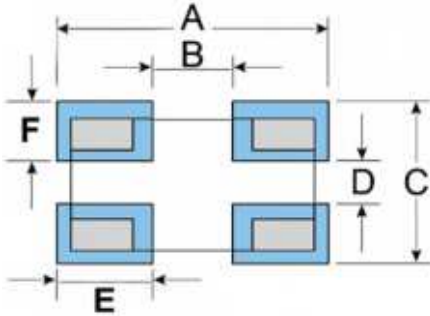


L	1.6±0.1 (0.063±0.004)
W	0.84±0.1 (0.033±0.004)
T	0.6±0.1 (0.028±0.004)
A	0.35±0.15 (0.014±0.006)
B	0.175±0.1 (0.007±0.004)
B1	0.00+0.1/0-0.0 (0.00+0.004/-0.0)

ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: millimeters (inches)



A	1.85±0.05 (0.073±0.002)
B	0.45±0.05 (0.018±0.002)
C	1.08±0.05 (0.043±0.002)
D	0.28±0.05 (0.011±0.002)
E	0.70±0.05 (0.028±0.002)
F	0.40±0.05 (0.016±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")

Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

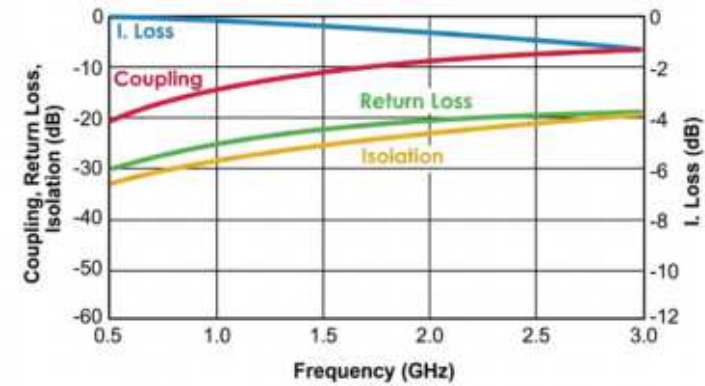
CP0603AxxxxBSTR



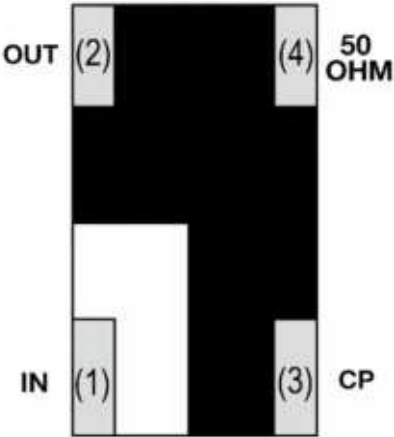
Coupler P/N CP0603AxxxxBSTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]
CP0603A0836BSTR	824 - 849	-16±1	-0.25	-21
CP0603A0881BSTR	869 - 894	-15.5±1	-0.25	-21
CP0603A0902BSTR	890 - 915	-15.5±1	-0.25	-21
CP0603A0947BSTR	935 - 960	-15±1	-0.25	-21
CP0603A0897BSTR	880 - 915	-15.5±1	-0.25	-21
CP0603A0942BSTR	925 - 960	-15±1	-0.25	-21
CP0603A1441BSTR	1429 - 1453	-11.5±1	-0.55	-21
CP0603A1747BSTR	1710 - 1785	-10±1	-0.8	-18
CP0603A1842BSTR	1805 - 1880	-9.5±1	-0.8	-18
CP0603A1880BSTR	1850 - 1910	-9±1	-0.8	-16
CP0603A1960BSTR	1930 - 1990	-9±1	-0.8	-16
CP0603A1907BSTR	1895 - 1920	-9±1	-0.8	-16
CP0603A1890BSTR	1880 - 1900	-9±1	-0.8	-16
CP0603A2442BSTR	2400 - 2484	-7.5±1	-1.1	-16

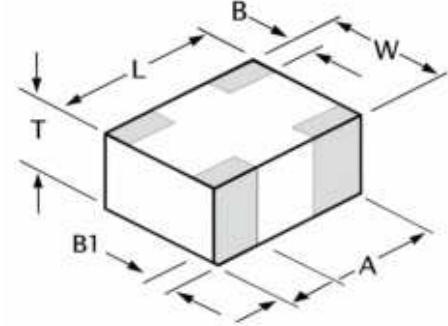
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TERMINALS (TOP VIEW)

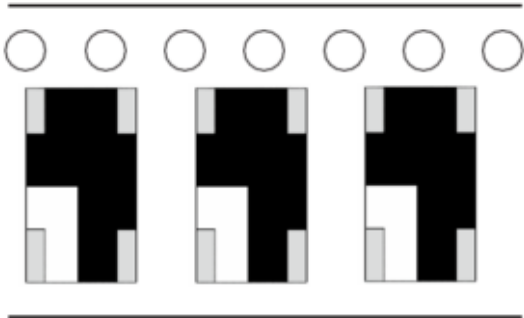


DIMENSIONS: millimeters (inches) (Bottom View)

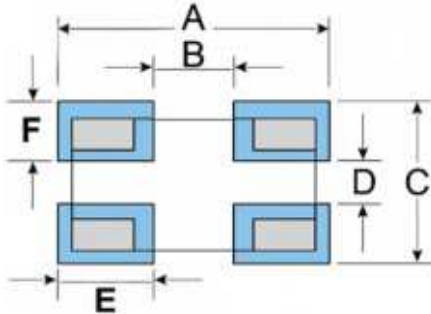


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ORIENTATION IN TAPE



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Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

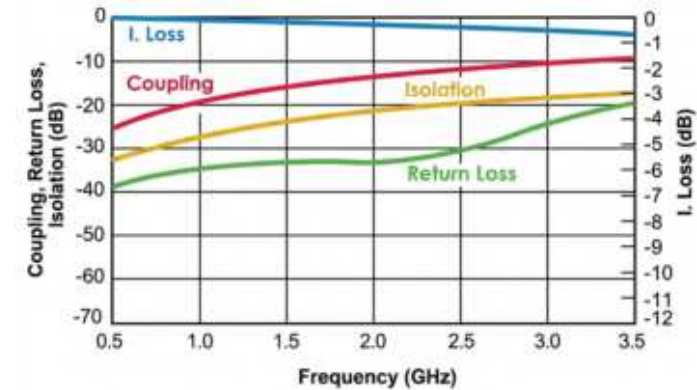
CP0603AxxxxCSTR



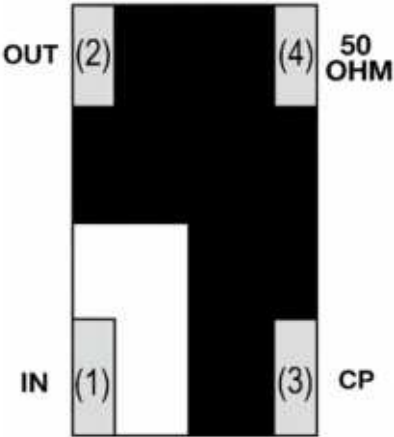
Coupler P/N CP0603AxxxxCSTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]
CP0603A0836CSTR	824 - 849	-21±1	-0.25	-21
CP0603A0881CSTR	869 - 894	-20.5±1	-0.25	-21
CP0603A0902CSTR	890 - 915	-20.5±1	-0.25	-21
CP0603A0947CSTR	935 - 960	-20±1	-0.25	-21
CP0603A0897CSTR	880 - 915	-20.5±1	-0.25	-21
CP0603A0942CSTR	925 - 960	-20±1	-0.25	-21
CP0603A1441CSTR	1429 - 1453	-16.5±1	-0.55	-21
CP0603A1747CSTR	1710 - 1785	-15±1	-0.8	-21
CP0603A1842CSTR	1805 - 1880	-14.5±1	-0.8	-21
CP0603A1880CSTR	1850 - 1910	-14.5±1	-0.8	-21
CP0603A1960CSTR	1930 - 1990	-14±1	-0.8	-21
CP0603A1907CSTR	1895 - 1920	-14.5±1	-0.8	-21
CP0603A1890CSTR	1880 - 1900	-14.5±1	-0.8	-21
CP0603A2442CSTR	2400 - 2484	-12.5±1	-1.1	-21

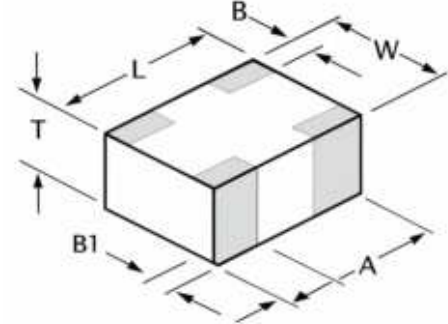
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TERMINALS (TOP VIEW)

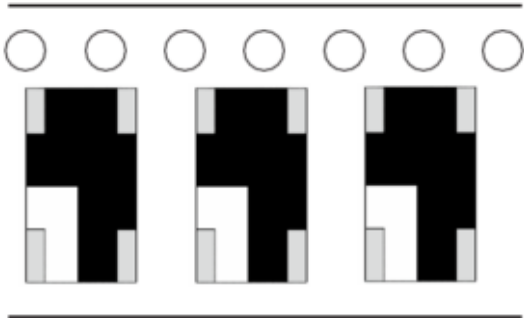


DIMENSIONS: millimeters (inches) (Bottom View)

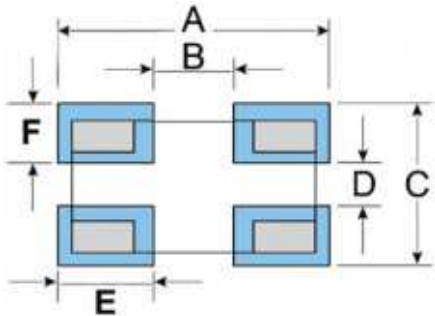


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Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

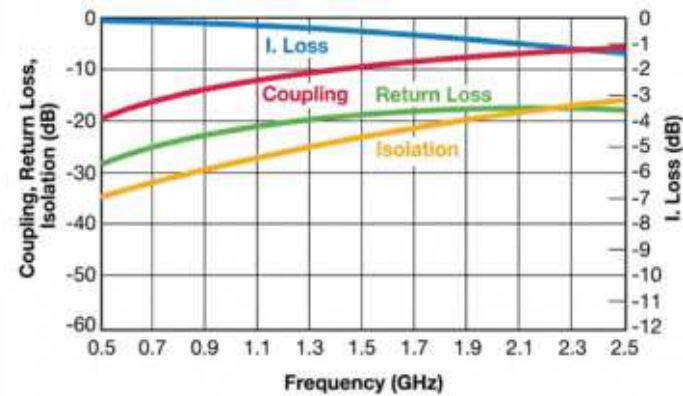
CP0603AxxxxDSTR



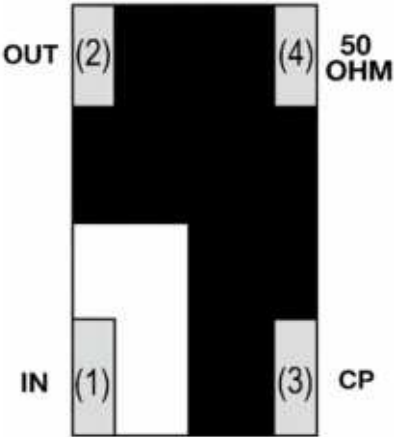
Coupler P/N CP0603AxxxxDSTR

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CP0603A0836DSTR	824 - 849	-15±1	-0.25	-21
CP0603A0881DSTR	869 - 894	-14.5±1	-0.25	-21
CP0603A0902DSTR	890 - 915	-14.5±1	-0.25	-21
CP0603A0947DSTR	935 - 960	-14±1	-0.25	-21
CP0603A0897DSTR	880 - 915	-14.5±1	-0.25	-21
CP0603A0942DSTR	925 - 960	-14±1	-0.25	-21
CP0603A1441DSTR	1429 - 1453	-10.5±1	-0.7	-21
CP0603A1747DSTR	1710 - 1785	-9±1	-0.9	-21
CP0603A1842DSTR	1805 - 1880	-8.5±1	-0.9	-21
CP0603A1880DSTR	1850 - 1910	-8.5±1	-1.0	-21
CP0603A1960DSTR	1930 - 1990	-8±1	-1.0	-21
CP0603A1907DSTR	1895 - 1920	-8.5±1	-1.0	-21
CP0603A1890DSTR	1880 - 1900	-8.5±1	-1.0	-21
CP0603A2442DSTR	2400 - 2484	-6.5±1	-1.5	-21

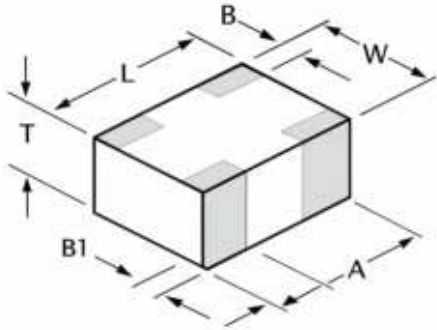
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TERMINALS (TOP VIEW)

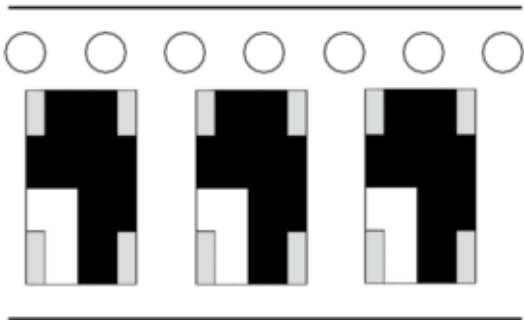


DIMENSIONS: millimeters (inches) (Bottom View)

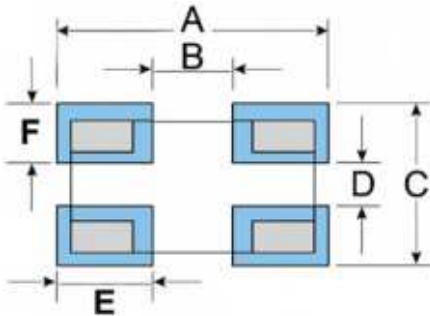


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B1	0.00±0.1/0-0.0 (0.00±0.004/-0.0)

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The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

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CP0603 High Directivity SMD Type

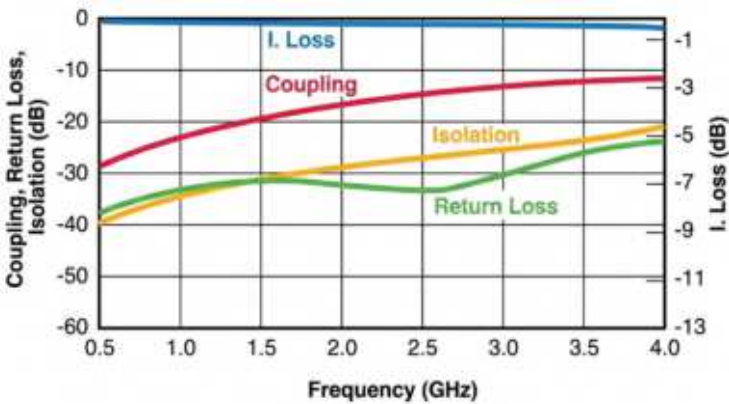
CP0603BxxxxASTR



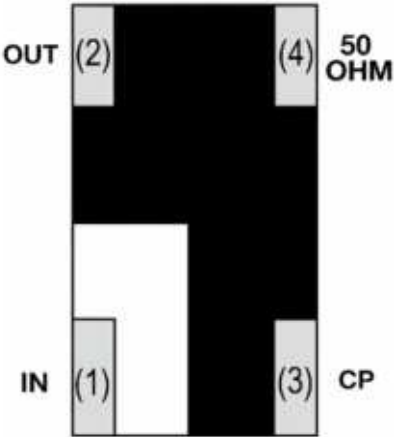
Coupler P/N CP0603BxxxxASTR

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CP0603B0836ASTR	824 - 849	-24.5±1	-0.2	-21
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CP0603B0947ASTR	935 - 960	-23.5±1	-0.2	-21
CP0603B0897ASTR	880 - 915	-24±1	-0.2	-21
CP0603B0942ASTR	925 - 960	-23.5±1	-0.2	-21
CP0603B1441ASTR	1429 - 1453	-20±1	-0.25	-21
CP0603B1747ASTR	1710 - 1785	-18±1	-0.25	-21
CP0603B1842ASTR	1805 - 1880	-17.5±1	-0.3	-21
CP0603B1880ASTR	1850 - 1910	-17.5±1	-0.3	-21
CP0603B1960ASTR	1930 - 1990	-17.5±1	-0.3	-21
CP0603B1907ASTR	1895 - 1920	-17.5±1	-0.3	-21
CP0603B1890ASTR	1880 - 1900	-17.5±1	-0.3	-21
CP0603B2442ASTR	2400 - 2484	-15.5±1	-0.45	-21

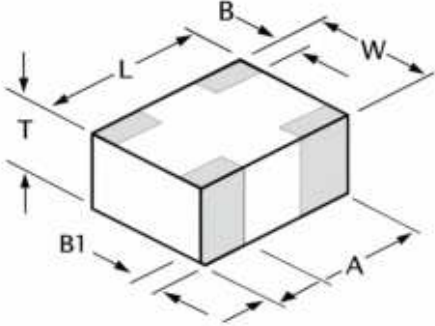
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TERMINALS (TOP VIEW)

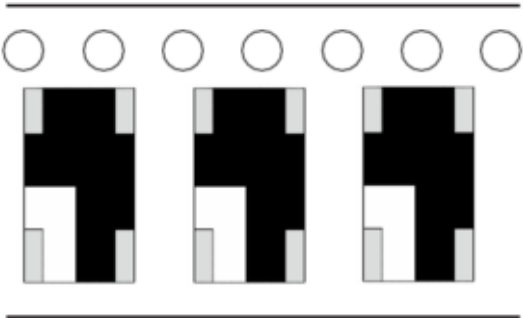


DIMENSIONS: millimeters (inches) (Bottom View)

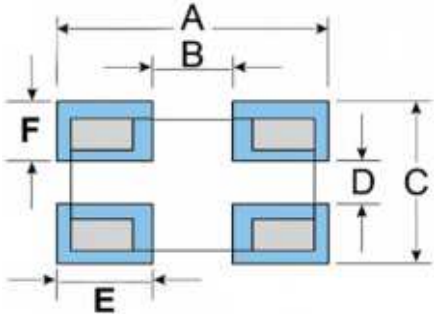


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ORIENTATION IN TAPE



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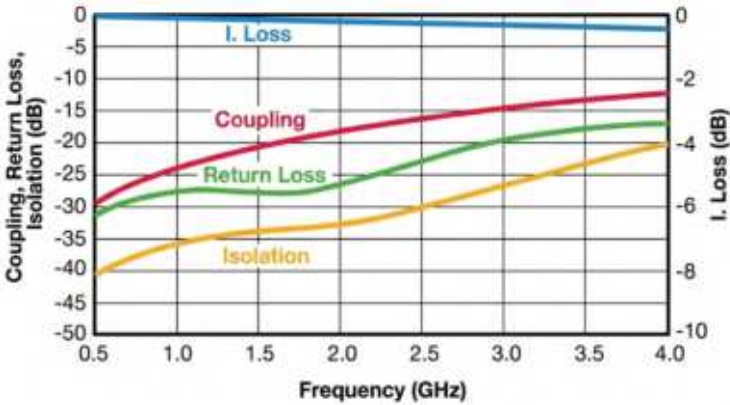
CP0603BxxxxBSTR



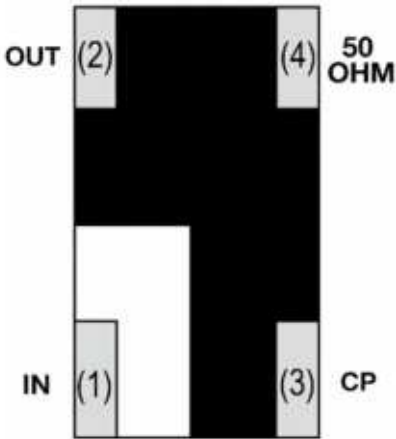
Coupler P/N CP0603BxxxxBSTR

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CP0603A1441BSTR	1429 - 1453	-21±1	-0.2	-21
CP0603A1747BSTR	1710 - 1785	-19±1	-0.25	-21
CP0603A1842BSTR	1805 - 1880	-19±1	-0.25	-21
CP0603A1880BSTR	1850 - 1910	-18.5±1	-0.25	-21
CP0603A1960BSTR	1930 - 1990	-18.5±1	-0.25	-21
CP0603A1907BSTR	1895 - 1920	-18.5±1	-0.25	-21
CP0603A1890BSTR	1880 - 1900	-18.5±1	-0.25	-21
CP0603A2442BSTR	2400 - 2484	-16.5±1	-0.35	-21

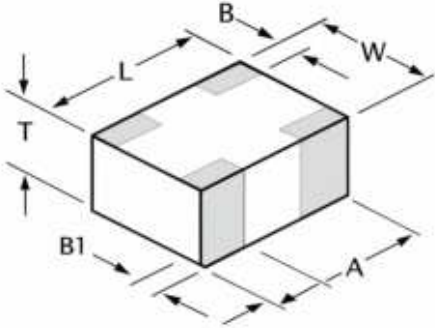
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TERMINALS (TOP VIEW)

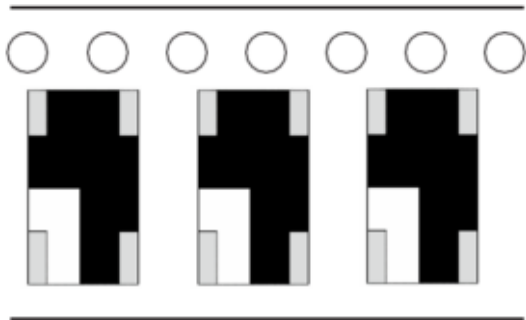


DIMENSIONS: millimeters (inches)
(Bottom View)

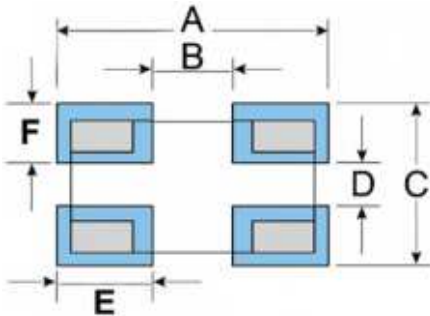


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ORIENTATION IN TAPE



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millimeters (inches)



A	1.85±0.05 (0.073±0.002)
B	0.45±0.05 (0.018±0.002)
C	1.08±0.05 (0.043±0.002)
D	0.28±0.05 (0.011±0.002)
E	0.70±0.05 (0.028±0.002)
F	0.40±0.05 (0.016±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

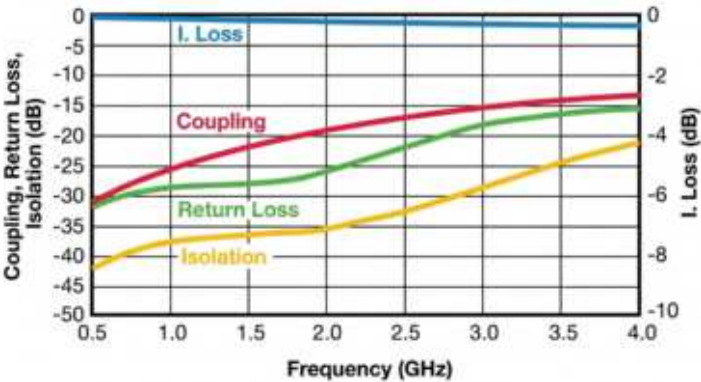
CP0603BxxxxCSTR



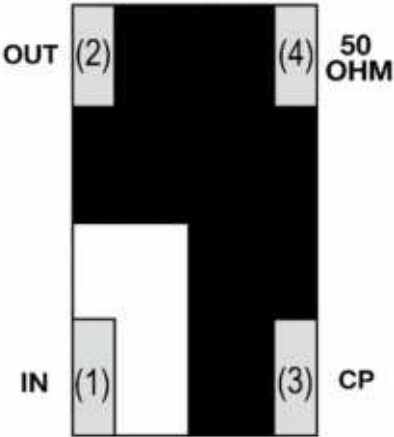
Coupler P/N CP0603BxxxxCSTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]
CP0603B0836CSTR	824 - 849	-26.5±1	-0.2	-21
CP0603B0881CSTR	869 - 894	-26±1	-0.2	-21
CP0603B0902CSTR	890 - 915	-26±1	-0.2	-21
CP0603B0947CSTR	935 - 960	-25.5±1	-0.2	-21
CP0603B0897CSTR	880 - 915	-26±1	-0.2	-21
CP0603B0942CSTR	925 - 960	-25.5±1	-0.2	-21
CP0603B1441CSTR	1429 - 1453	-22±1	-0.2	-21
CP0603B1747CSTR	1710 - 1785	-20.5±1	-0.25	-21
CP0603B1842CSTR	1805 - 1880	-20±1	-0.25	-21
CP0603B1880CSTR	1850 - 1910	-20±1	-0.25	-21
CP0603B1960CSTR	1930 - 1990	-19.5±1	-0.25	-21
CP0603B1907CSTR	1895 - 1920	-20±1	-0.25	-21
CP0603B1890CSTR	1880 - 1900	-20±1	-0.25	-21
CP0603B2442CSTR	2400 - 2484	-18±1	-0.35	-17

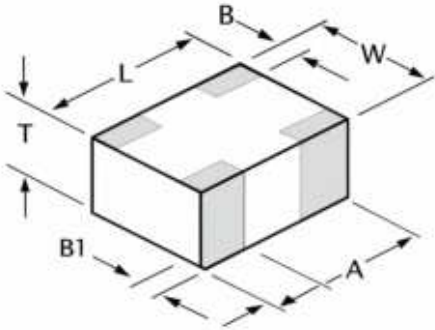
Important: Couplers can be used at any frequency within the indicated range.



TERMINALS (TOP VIEW)

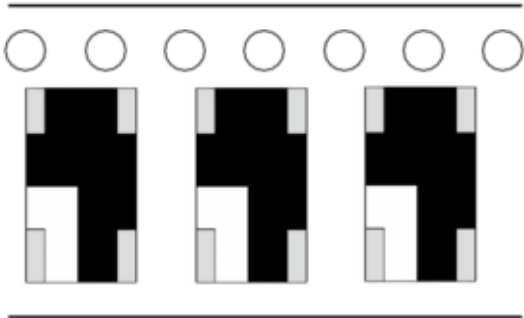


DIMENSIONS: millimeters (inches) (Bottom View)

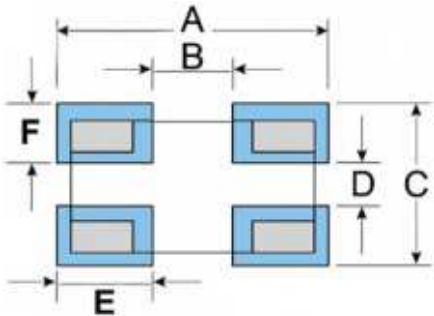


L	1.6±0.1 (0.063±0.004)
W	0.84±0.1 (0.033±0.004)
T	0.6±0.1 (0.024±0.004)
A	0.35±0.15 (0.014±0.006)
B	0.7±0.1 (0.028±0.004)
B1	0.00±0.1/0-0.0 (0.00±0.004/-0.0)
A1	0.00±0.1/0-0.0 (0.00±0.004/-0.0)

ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: millimeters (inches)



A	1.85±0.05 (0.073±0.002)
B	0.45±0.05 (0.018±0.002)
C	1.08±0.05 (0.043±0.002)
D	0.28±0.05 (0.011±0.002)
E	0.70±0.05 (0.028±0.002)
F	0.40±0.05 (0.016±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")

Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

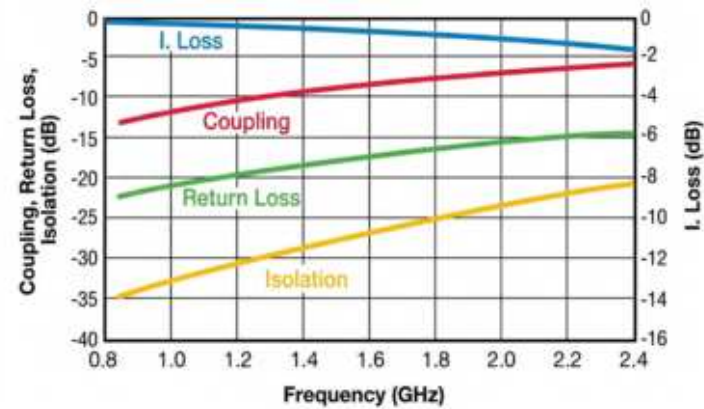
CP0603DxxxxASTR



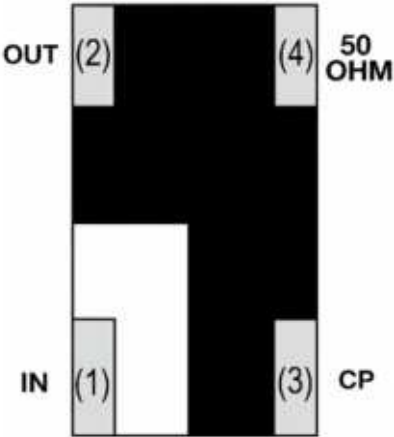
Coupler P/N CP0603DxxxxASTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]	Directivity [dB]
CP0603D0836ASTR	824 - 849	-13.50	-0.50	-23	-21
CP0603D0881ASTR	869 - 894	-13.00	-0.50	-22	-21
CP0603D0902ASTR	890 - 915	-13.00	-0.50	-22	-21
CP0603D0947ASTR	935 - 960	-12.50	-0.50	-22	-21
CP0603D0897ASTR	880 - 915	-13.00	-0.50	-22	-21
CP0603D0942ASTR	925 - 960	-12.50	-0.50	-22	-21
CP0603D1441ASTR	1429 - 1453	-9.00	-1.00	-18	-21
CP0603D1747ASTR	1710 - 1785	-8.00	-1.40	-17	-21
CP0603D1842ASTR	1805 - 1880	-7.50	-1.40	-17	-21
CP0603D1880ASTR	1850 - 1910	-7.50	-1.40	-16	-21
CP0603D1960ASTR	1930 - 1990	-7.00	-1.40	-16	-21
CP0603D1907ASTR	1895 - 1920	-7.00	-1.40	-16	-21
CP0603D1890ASTR	1880 - 1900	-7.00	-1.40	-16	-21
CP0603D2442ASTR	2400 - 2484	-5.50	-2.00	-15	-21

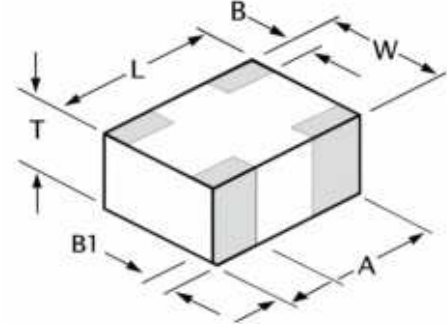
Important: Couplers can be used at any frequency within the indicated range.



TERMINALS (TOP VIEW)

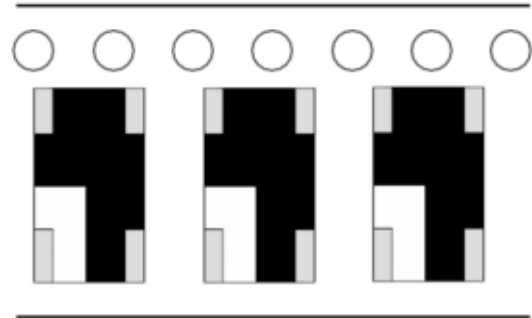


DIMENSIONS: millimeters (inches) (Bottom View)

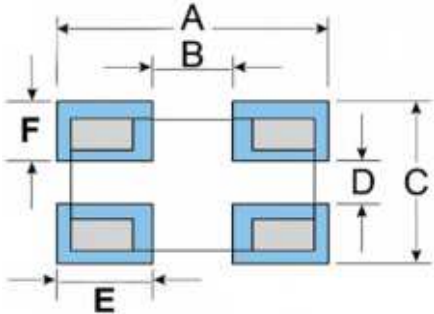


L	1.6±0.1 (0.063±0.004)
W	0.84±0.1 (0.033±0.004)
T	0.6±0.1 (0.028±0.004)
A	0.35±0.15 (0.014±0.006)
B	0.175±0.1 (0.007±0.004)
B1	0.00+0.1/0-0.0 (0.00+0.004/-0.0)

ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: millimeters (inches)



A	1.85±0.05 (0.073±0.002)
B	0.45±0.05 (0.018±0.002)
C	1.08±0.05 (0.043±0.002)
D	0.28±0.05 (0.011±0.002)
E	0.70±0.05 (0.028±0.002)
F	0.40±0.05 (0.016±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")

Thin-Film RF/Microwave Directional Couplers

CP0603 High Directivity SMD Type

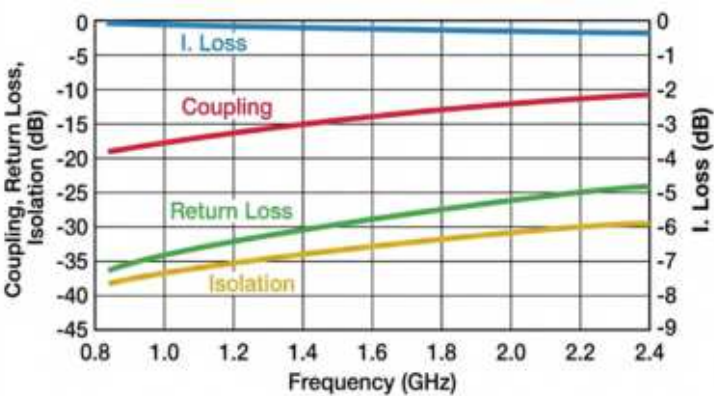
CP0603DxxxxBSTR



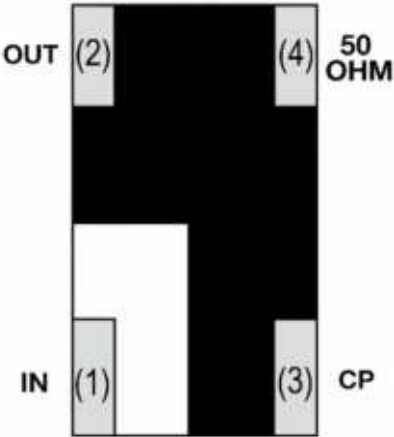
Coupler P/N CP0603DxxxxBSTR

P/N Examples*	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	R. Loss max. [dB]	Directivity [dB]
CP0603D0836BSTR	824 - 849	-20.00	-0.25	-36	-19
CP0603D0881BSTR	869 - 894	-19.50	-0.25	-36	-19
CP0603D0902BSTR	890 - 915	-19.50	-0.25	-35	-19
CP0603D0947BSTR	935 - 960	-19.00	-0.25	-36	-19
CP0603D0897BSTR	880 - 915	-19.50	-0.25	-36	-19
CP0603D0942BSTR	925 - 960	-19.00	-0.25	-35	-19
CP0603D1441BSTR	1429 - 1453	-15.50	-0.40	-30	-19
CP0603D1747BSTR	1710 - 1785	-14.00	-0.50	-28	-19
CP0603D1842BSTR	1805 - 1880	-13.50	-0.55	-27	-19
CP0603D1880BSTR	1850 - 1910	-13.50	-0.55	-27	-19
CP0603D1960BSTR	1930 - 1990	-13.50	-0.55	-27	-19
CP0603D1907BSTR	1895 - 1920	-13.00	-0.55	-27	-19
CP0603D1890BSTR	1880 - 1900	-13.00	-0.55	-27	-19
CP0603D2442BSTR	2400 - 2484	-11.00	-0.70	-24	-19

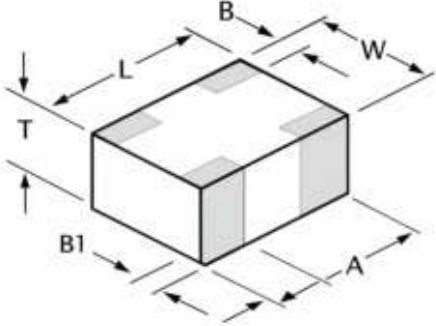
Important: Couplers can be used at any frequency within the indicated range.



TERMINALS (TOP VIEW)

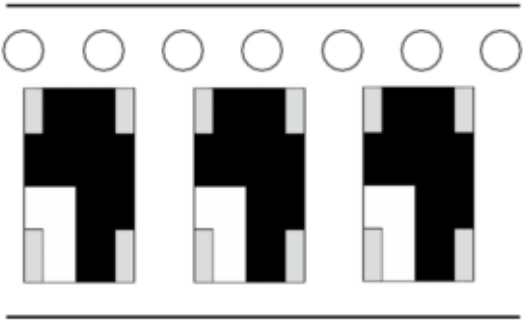


DIMENSIONS: millimeters (inches) (Bottom View)

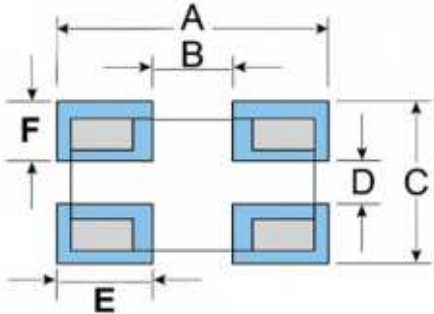


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T	0.6±0.1 (0.028±0.004)
A	0.35±0.15 (0.014±0.006)
B	0.175±0.1 (0.007±0.004)
B1	0.00±0.1/0-0.0 (0.00±0.004/-0.0)

ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: millimeters (inches)



A	1.85±0.05 (0.073±0.002)
B	0.45±0.05 (0.018±0.002)
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*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")