

Thin-Film Directional Couplers



CP0603 SMD Type

GENERAL DESCRIPTION ITF (Integrated Thin-Film) TECHNOLOGY

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.

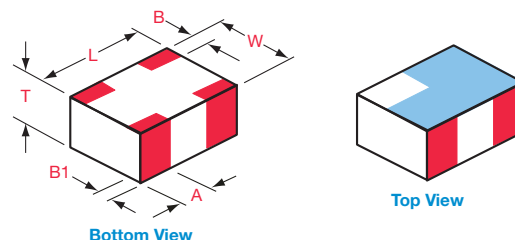
APPLICATIONS

- Mobile Communications
- Satellite TV Receivers
- GPS
- Vehicle Location Systems
- Wireless LAN's
- 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

FEATURES

DIMENSIONS:

millimeters (inches)



	0603
L	1.6±0.1 (0.063±0.004)
W	0.84±0.1 (0.033±0.004)
T	0.60±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)

HOW TO ORDER

CP T Style Directional Coupler	0603 T Size 0603	X T Type	**** T Frequency MHz	X T Sub Type	S T Termination Code W = Sn90, Pb10 **S = Sn100	TR T Packaging Code TR = Tape and Reel
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**RoHS compliant

QUALITY INSPECTION

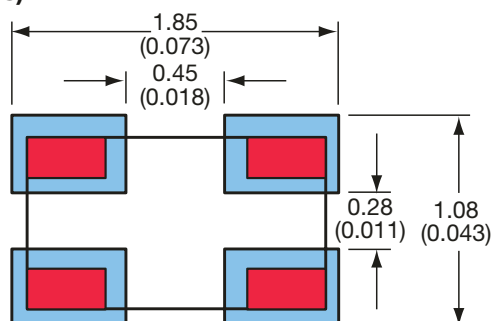
Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

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

TERMINATION

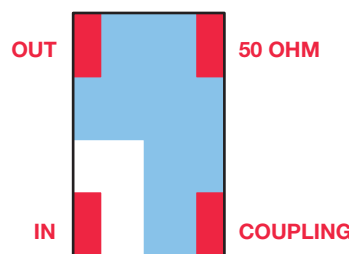
Nickel/Solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

Recommended Pad Layout Dimensions mm (inches)

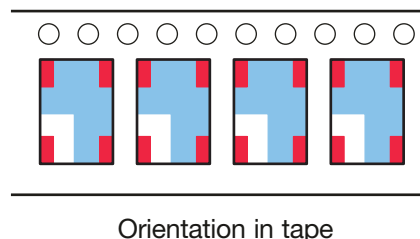


TERMINALS (Top View)

Not RoHS Compliant



For RoHS compliant products, please select correct termination style.



Thin-Film Directional Couplers



CP0603 SMD Type

Coupler P/N CP0603A****AS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603A0836AS	824 - 849	18.5±1	0.25	1.2
	CP0603A0881AS	869 - 894	18.5±1		
GSM	CP0603A0902AS	890 - 915	18±1	0.4	
	CP0603A0947AS	935 - 960	17.5±1		
E-GSM	CP0603A0897AS	880 - 915	18±1	0.6	
	CP0603A0942AS	925 - 960	17.5±1		
PDC	CP0603A1441AS	1429 - 1453	14±1	0.65	
PCN	CP0603A1747AS	1710 - 1785	12.5±1		
	CP0603A1842AS	1805 - 1880	12±1	0.6	
PCS	CP0603A1880AS	1850 - 1910	12±1		
	CP0603A1960AS	1930 - 1990	11.5±1	0.6	
PHP	CP0603A1907AS	1895 - 1920	12±1		0.85
DECT	CP0603A1890AS	1880 - 1900	12±1		
Wireless LAN	CP0603A2442AS	2400 - 2484	10±1		

CP0603A****AS



Coupler P/N CP0603A****BS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603A0836BS	824 - 849	16±1	0.25	1.2
	CP0603A0881BS	869 - 894	15.5±1		
GSM	CP0603A0902BS	890 - 915	15.5±1	0.55	1.3
	CP0603A0947BS	935 - 960	15±1		
E-GSM	CP0603A0897BS	880 - 915	15.5±1	0.8	1.4
	CP0603A0942BS	925 - 960	15±1		
PDC	CP0603A1441BS	1429 - 1453	11.5±1	1.1	1.3
PCN	CP0603A1747BS	1710 - 1785	10±1		
	CP0603A1842BS	1805 - 1880	9.5±1	0.8	1.4
PCS	CP0603A1880BS	1850 - 1910	9±1		
	CP0603A1960BS	1930 - 1990	9±1	1.1	1.4
PHP	CP0603A1907BS	1895 - 1920	9±1		
DECT	CP0603A1890BS	1880 - 1900	9±1	1.1	1.4
Wireless LAN	CP0603A2442BS	2400 - 2484	7.5±1		

CP0603A****BS



Coupler P/N CP0603A****CS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603A0836CS	824 - 849	21±1	0.25	1.2
	CP0603A0881CS	869 - 894	20.5±1		
GSM	CP0603A0902CS	890 - 915	20.5±1	0.40	
	CP0603A0947CS	935 - 960	20±1		
E-GSM	CP0603A0897CS	880 - 915	20.5±1	0.5	
	CP0603A0942CS	925 - 960	20±1		
PDC	CP0603A1441CS	1429 - 1453	16.5±1	0.65	
PCN	CP0603A1747CS	1710 - 1785	15±1		
	CP0603A1842CS	1805 - 1880	14.5±1	0.5	
PCS	CP0603A1880CS	1850 - 1910	14.5±1		
	CP0603A1960CS	1930 - 1990	14±1	0.65	
PHP	CP0603A1907CS	1895 - 1920	14.5±1		
DECT	CP0603A1890CS	1880 - 1900	14.5±1	0.65	
Wireless LAN	CP0603A2442CS	2400 - 2484	12.5±1		

CP0603A****CS



Coupler P/N CP0603A****DS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603A0836DS	824 - 849	15.0±1	0.40	1.2
	CP0603A0881DS	869 - 894	14.5±1		
GSM	CP0603A0902DS	890 - 915	14.5±1	0.7	1.3
	CP0603A0947DS	935 - 960	14±1		
E-GSM	CP0603A0897DS	880 - 915	14.5±1	0.9	1.5
	CP0603A0942DS	925 - 960	14±1		
PDC	CP0603A1441DS	1429 - 1453	10.5±1	1.0	
PCN	CP0603A1747DS	1710 - 1785	9±1		
	CP0603A1842DS	1805 - 1880	8.5±1	1.5	
PCS	CP0603A1880DS	1850 - 1910	8.5±1		
	CP0603A1960DS	1930 - 1990	8±1	1.5	
PHP	CP0603A1907DS	1895 - 1920	8.5±1		
DECT	CP0603A1890DS	1880 - 1900	8.5±1	1.5	
Wireless LAN	CP0603A2442DS	2400 - 2484	6.5±1		

CP0603A****DS



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



Thin-Film Directional Couplers



CP0603 SMD Type

Coupler P/N CP0603B****AS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603B0836AS	824 - 849	24.5±1	0.2	1.2
	CP0603B0881AS	869 - 894	24±1		
GSM	CP0603B0902AS	890 - 915	24±1		
	CP0603B0947AS	935 - 960	23.5±1		
E-GSM	CP0603B0897AS	880 - 915	24±1		
	CP0603B0942AS	925 - 960	23.5±1		
PDC	CP0603B1441AS	1429 - 1453	20±1	0.25	
PCN	CP0603B1747AS	1710 - 1785	18±1		
	CP0603B1842AS	1805 - 1880	17.5±1	0.3	
PCS	CP0603B1880AS	1850 - 1910	17.5±1		
	CP0603B1960AS	1930 - 1990	17.5±1		
PHP	CP0603B1907AS	1895 - 1920	17.5±1		
DECT	CP0603B1890AS	1880 - 1900	17.5±1		
Wireless LAN	CP0603B2442AS	2400 - 2484	15.5±1		

CP0603B****AS



Coupler P/N CP0603B****BS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603B0836BS	824 - 849	25.5±1	0.2	1.2
	CP0603B0881BS	869 - 894	25±1		
GSM	CP0603B0902BS	890 - 915	25±1		
	CP0603B0947BS	935 - 960	24.5±1		
E-GSM	CP0603B0897BS	880 - 915	25±1	0.25	
	CP0603B0942BS	925 - 960	24.5±1		
PDC	CP0603B1441BS	1429 - 1453	21±1	0.25	
PCN	CP0603B1747BS	1710 - 1785	19±1		
	CP0603B1842BS	1805 - 1880	19±1		
PCS	CP0603B1880BS	1850 - 1910	18.5±1		
	CP0603B1960BS	1930 - 1990	18.5±1		
PHP	CP0603B1907BS	1895 - 1920	18.5±1		
DECT	CP0603B1890BS	1880 - 1900	18.5±1		
Wireless LAN	CP0603B2442BS	2400 - 2484	16.5±1	0.35	

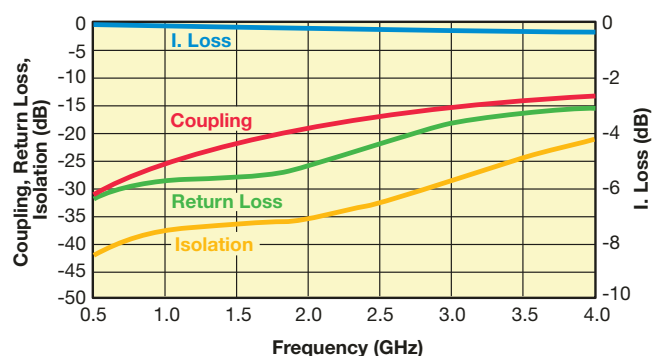
CP0603B****BS



Coupler P/N CP0603B****CS

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max	VSWR max
AMPS	CP0603B0836CS	824 - 849	26.5±1	0.2	1.2
	CP0603B0881CS	869 - 894	26±1		
GSM	CP0603B0902CS	890 - 915	26±1		
	CP0603B0947CS	935 - 960	25.5±1		
E-GSM	CP0603B0897CS	880 - 915	26±1		
	CP0603B0942CS	925 - 960	25.5±1		
PDC	CP0603B1441CS	1429 - 1453	22±1	0.25	
PCN	CP0603B1747CS	1710 - 1785	20.5±1		
	CP0603B1842CS	1805 - 1880	20±1		
PCS	CP0603B1880CS	1850 - 1910	20±1		
	CP0603B1960CS	1930 - 1990	19.5±1		
PHP	CP0603B1907CS	1895 - 1920	20±1		
DECT	CP0603B1890CS	1880 - 1900	20±1		
	Wireless LAN	CP0603B2442CS	2400 - 2484		18±1

CP0603B****CS



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

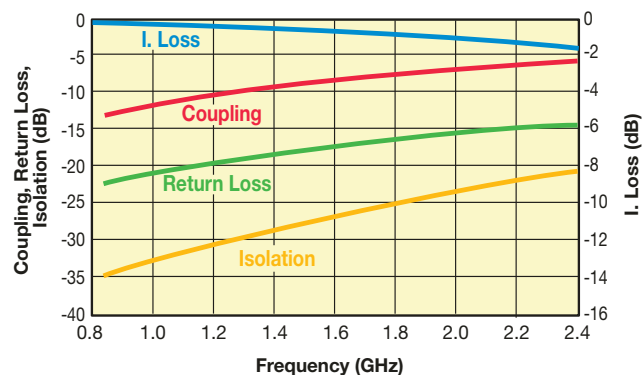
Thin-Film Directional Couplers

CP0603 SMD Type – High Directivity

Coupler P/N CP0603D**AS**

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	Return Loss [dB]	Directivity [dB]
AMPS	CP0603D0836AS	824 - 849	13.50	0.50	23	21
	CP0603D0881AS	869 - 894	13.00			
GSM	CP0603D0902AS	890 - 915				
	CP0603D0947AS	935 - 960	12.50		22	
E-GSM	CP0603D0897AS	880 - 915	13.00			
	CP0603D0942AS	925 - 960	12.50			
PDC	CP0603D1441AS	1429 - 1453	9.00	1.00	18	19
PCN	CP0603D1747AS	1710 - 1785	8.00	1.40	17	18
	CP0603D1842AS	1805 - 1880				
PCS	CP0603D1880AS	1850 - 1910	7.50			
	CP0603D1960AS	1930 - 1990			16	17
PHP	CP0603D1907AS	1895 - 1920	7.00			
DECT	CP0603D1890AS	1880 - 1900				
Wireless LAN	CP0603D2442AS	2400 - 2484	5.50	2.00	15	15

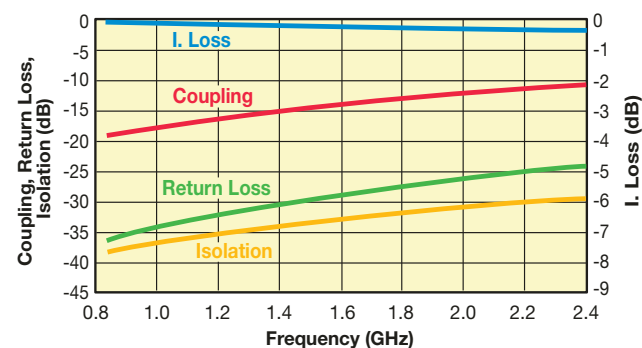
CP0603D**AS**



Coupler P/N CP0603D**BS**

Application	P/N Examples	Frequency Band [MHz]	Coupling [dB]	I. Loss max. [dB]	Return Loss [dB]	Directivity [dB]
AMPS	CP0603D0836BS	824 - 849	20.00	0.25	36	19
	CP0603D0881BS	869 - 894	19.50			
GSM	CP0603D0902BS	890 - 915			35	
	CP0603D0947BS	935 - 960	19.00			
E-GSM	CP0603D0897BS	880 - 915	19.50		36	
	CP0603D0942BS	925 - 960	19.00		35	
PDC	CP0603D1441BS	1429 - 1453	15.50	0.40	30	
PCN	CP0603D1747BS	1710 - 1785	14.00	0.50	28	
	CP0603D1842BS	1805 - 1880				
PCS	CP0603D1880BS	1850 - 1910	13.50	0.55	27	
	CP0603D1960BS	1930 - 1990				
PHP	CP0603D1907BS	1895 - 1920	13.00			
DECT	CP0603D1890BS	1880 - 1900				
Wireless LAN	CP0603D2442BS	2400 - 2484	11.00	0.70	24	

CP0603D**BS**



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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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