

RF/Microwave Ceramics - continued

RF/Microwave Capacitors - continued

ACCU-P® - continued

Capacitance (pF)		Mfrs. List No.		Order Code	1+	50+	100+	500+	+
16 Volt d.c.									
8.2	0402YJ8R2BBSTR	SMD	110-0629	●	34.00	29.00	26.00	22.00	--
10	0402YJ100GBSTR	SMD	110-0630	●	43.00	37.00	32.00	28.00	--
10 Volt d.c.									
12	0402ZJ120GBSTR	SMD	110-0631	●	43.00	37.00	32.00	28.00	--
15	0402ZJ150GBSTR	SMD	110-0632	●	43.00	37.00	32.00	28.00	--
18	0402ZJ180GBSTR	SMD	110-0633	●	43.00	37.00	32.00	28.00	--
22	0402ZJ220GBSTR	SMD	110-0635	●	43.00	37.00	32.00	28.00	--

Thin-Film 3dB Directional Couplers

DB0805 Series



Reel Quantity = 3000

- Miniature size
- Low Insertion Loss
- High Isolation
- Power Handling: 10W RF CW
- Operating Temperature: -40°C to +85°C
- Applications: Balanced amplifiers and signal distribution in mobile communications



The ITF SMD 3dB 90° 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 3dB 90° Coupler is offered in a variety of frequency bands compatible with various types of high frequency wireless systems such as GSM, PCS, W-CDMA etc.

Fo (MHz)	I. Loss @ Fo (dB)	Phase Balance Max (deg)	Device Marking	Mfrs. List No.	Order Code
880	0.35	3	Y	DB0805A0880ASTR	110-0636
915	0.35	3	V	DB0805A0915ASTR	110-0637
967	0.35	3	V	DB0805A0967ASTR	110-0638
1350	0.35	3	C	DB0805A1350ASTR	110-0639
1650	0.35	3	F	DB0805A1650ASTR	110-0640
1800	0.30	3	F	DB0805A1800ASTR	110-0641
1850	0.30	3	K	DB0805A1850ASTR	110-0642
1900	0.30	3	K	DB0805A1900ASTR	110-0643
1950	0.25	3	K	DB0805A1950ASTR	110-0644
2140	0.25	3	L	DB0805A2140ASTR	110-0645
2325	0.25	3	T	DB0805A2325ASTR	110-0647

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Order Code	1+	50+	100+	500+	+
All Values ●	140.00	125.00	108.00	90.00	--

Multilayer Ceramic, High-Cap

HighCap MLCC – Surface Mount



- High performance multilayer ceramic chip capacitors
- Class 2 dielectric characteristics
- High capacitance per unit volume
- Nickel barrier terminations
- Designed for use as alternative to electrolytic and tantalum capacitors

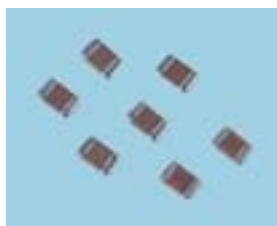
- Applications include coupling and bypass filters

Capacitance (μF)	Voltage (V d.c.)	Case Size	Reel Quantity	Mfrs. List No.	Price Each	
					10+	50+
X5R						
4.7	6.3	0805	3000	B37641K9474K62	521-2832	
10	10	1206	2000	B37572K8106K62	521-2819	
X7R						
0.47	16	0805	3000	B37941K9474K60	521-2893	
1	16	0805	3000	B37941K9105K62	521-2881	
1	16	0805	3000	B37641K9105K62	880-5628	
0.22	25	0603	3000	B37931K0224K60	880-5644	
0.22	25	0805	3000	B37941K0224K60	880-5652	
0.33	25	0805	3000	B37941K0334K60	880-5660	
0.47	25	0805	3000	B37941K0474K60	880-5679	
1	25	0805	3000	B37941K0105K62	880-5687	

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Order Multiple=10				Price Each				
μF	Volts d.c.	Order Code	10+	50+	100+	500+	+	
X5R								
4.7	6.3	SMD 521-2832 ●	17.00	14.00	11.00	8.00	--	
10	10	SMD 521-2819 ●	50.00	41.00	32.00	24.00	--	
X7R								
0.47	16	SMD 521-2893 ●	9.00	7.00	6.00	4.00	--	
1	16	SMD 521-2881 ●	10.00	8.00	6.00	5.00	--	
1	16	SMD 880-5628 ●	2.00	2.00	2.00	1.00	--	
0.22	25	SMD 880-5644 ●	4.00	3.00	3.00	3.00	--	
0.22	25	SMD 880-5652 ●	4.00	4.00	3.00	3.00	--	
0.33	25	SMD 880-5660 ●	4.00	4.00	3.00	3.00	--	
0.47	25	SMD 880-5679 ●	4.00	4.00	3.00	3.00	--	
1	25	SMD 880-5687 ●	4.00	4.00	4.00	3.00	--	

Hi-Cap



- Multilayer ceramic chip capacitors
- High performance and reliability
- 0402, 0603, 0805, 1206, 1210 and 1812 case sizes
- Nickel barrier terminations
- Conform to IEC 60-68



Performance Characteristics

	X5R	X7R	Y5V
Operating Temperature	-55°C to +85°C	-55°C to +125°C	-25°C to +85°C
Tolerance	±10%	±10%	20% to 80%

0402 Case Size

Order Multiple=10				Price Each				
μF	Dielectric	Order Code	10+	100+	1K+	10K+	+	
6.3 Volt d.c.								
1	X5R	SMD 940-2063 ●	10.00	8.00	7.00	6.00	--	
1	Y5V	SMD 940-2071 ●	10.00	8.00	7.00	6.00	--	
10 Volt d.c.								
0.22	X5R	SMD 940-2055 ●	10.00	8.00	7.00	6.00	--	
16 Volt d.c.								
0.1	X7R	SMD 940-2047 ●	10.00	8.00	7.00	6.00	--	

0603 Case Size

Order Multiple=10				Price Each				
μF	Dielectric	Order Code	10+	100+	1K+	10K+	+	
2.2	X5R	SMD 940-2101 ●	7.00	6.00	6.00	6.00	--	
4.7	X5R	SMD 940-2110 ●	13.00	11.00	10.00	6.00	--	
4.7	Y5V	SMD 940-2128 ●	9.00	8.00	6.00	6.00	--	
10 Volt d.c.								
1	X5R	SMD 940-2080 ●	5.00	4.00	4.00	6.00	--	
2.2	Y5V	SMD 940-2098 ●	5.00	4.00	4.00	6.00	--	

0805 Case Size

Order Multiple=10				Price Each				
μF	Dielectric	Order Code	10+	100+	1K+	10K+	+	
2.2	X7R	SMD 940-2152 ●	11.00	10.00	8.00	7.00	--	
4.7	X5R	SMD 940-2160 ●	13.00	11.00	10.00	6.00	--	
10	X5R	SMD 940-2136 ●	19.00	16.00	14.00	6.00	--	
10	Y5V	SMD 940-2144 ●	13.00	11.00	10.00	6.00	--	

1206 Case Size

Order Multiple=10				Price Each				
μF	Dielectric	Order Code	10+	100+	1K+	10K+	+	
4.7	X7R	SMD 940-2195 ●	16.00	15.00	12.00	7.00	--	
10	X5R	SMD 940-2179 ●	25.00	22.00	19.00	6.00	--	
22	Y5V	SMD 940-2187 ●	22.00	20.00	17.00	6.00	--	

1210 Case Size

Order Multiple=10				Price Each				
μF	Dielectric	Order Code	10+	100+	1K+	10K+	+	
6.3 Volt d.c.								
47	X5R	SMD 940-2268 ●	142.00	126.00	107.00	7.00	--	
100	X5R	SMD 940-2209 ●	273.00	246.00	207.00	6.00	--	
10 Volt d.c.								
22	X5R	SMD 940-2233 ●	72.00	65.00	55.00	47.00	--	
22	Y5V	SMD 940-2241 ●	38.00	33.00	28.00	47.00	--	
25 Volt d.c.								
10	X5R	SMD 940-2217 ●	52.00	46.00	37.00	47.00	--	
4.7	X5R	SMD 940-2250 ●	36.00	31.00	27.00	47.00	--	
1	X7R	SMD 940-2225 ●	17.00	15.00	12.00	47.00	--	

N.B. Order codes 9402268 and 9402209 are of ±20% tolerance.

1812 Case Size

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