

MICROWAVE PRODUCTS FOR COMMUNICATION EQUIPMENT

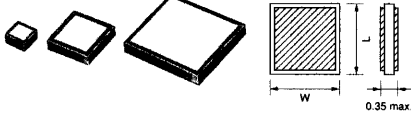
MICROWAVE COMPONENTS

HIGH-FREQUENCY MICROCHIP CAPACITORS

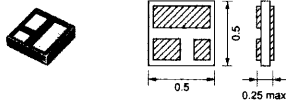
High-Frequency CLB Series (Gold Electrode)

Wire bonding type is available.

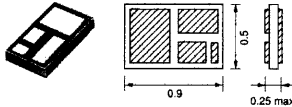
CLB11, 15, 12, 16, 17
13, 18, 19, 10 Type



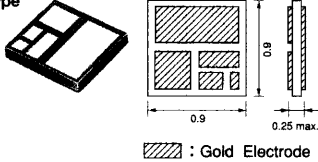
CLB32 Type



CLB44 Type



CLB53 Type



(in mm)

Gold Electrode

Part Number	Temp. Char. ● / Cap. Va (pF) ●					Dimensions (mm)	
	CG	UH	XL	B	F	L	W (max.)
CLB11	0.1—0.2	0.3—0.9	0.8—1.8	2.0—18	27—51	0.25	0.35
CLB15	0.2—0.8	0.9—2.7	1.8—5.1	5.1—56	62—150	0.38	0.71
CLB12	0.3—1.0	1.0—3.0	2.2—5.6	5.6—68	75—200	0.50	0.70
CLB16	0.3—1.6	2.0—6.2	3.6—11	10—120	130—360	0.64	1.00
CLB17	0.4—2.0	3.0—7.5	5.6—15	15—130	200—390	0.76	1.09
CLB13	0.5—2.7	3.3—9.1	6.2—18	16—180	200—560	0.90	1.49
CLB18	1.0—5.1	7.5—20	15—36	33—390	430—1300	1.27	2.19
CLB19	1.8—10	13—39	27—75	62—750	750—1800	1.78	2.95
CLB10	3.0—16	20—56	39—110	91—1200	1200—3000	2.29	3.71
CLB32	—	0.7*	1.5*	—	—	0.5	0.5
CLB44	—	1.5*	3.0*	—	—	0.5	0.9
CLB53	—	3.0*	5.9*	—	—	0.9	0.9

*Cap. Value for Longest Plates *Custom-made types are available upon request.

● Capacitance value steps are in accordance with EIA E24 steps. However, capacitance values below 1pF are treated as belonging to 0.1pF step.

Part Numbering (* Please specify the part number when ordering.)

(Ex.)

CLB 1 2 UH 1R3 K

- 1 : Type
- 2 : Number of Electrodes
- : Chip Size

- : Temperature Characteristic
CG : $0 \pm 30 \text{ ppm}/^\circ\text{C}$
UH : $N750 \pm 60 \text{ ppm}/^\circ\text{C}$
XL : $N2200 \pm 500 \text{ ppm}/^\circ\text{C}$
B : $\pm 10\%$
F : $\pm 30\%$, -80%
- : Capacitance Value
1.3pF=1R3
27pF=270

- : Capacitance Tolerance
T.C.
CG, UH : less than 1pF — B : $\pm 0.1\text{pF}$
XL, B : 1pF and over — K : $\pm 10\%$
F : all — M : $\pm 20\%$

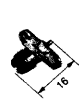
- Feature 1. Operation at over 10GHz possible.
- 2. Gold electrodes provide superior adhesion for die bonding and gold wire bonding.

HIGH-FREQUENCY COAXIAL CONNECTORS

Connectors

SMA Type

MM1244-1CC



MM1215



TNC Type

MM1456-2

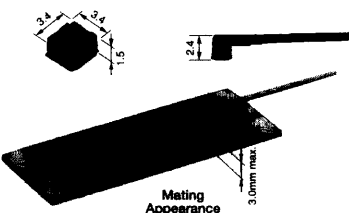


FSC Type

NEW

MM7329-2700

MXFK81

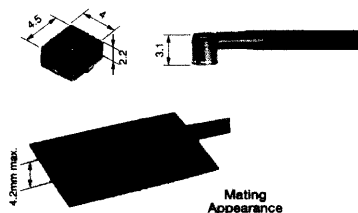


(in mm)

CCR Type

MM4329-2700

MXSG63XX

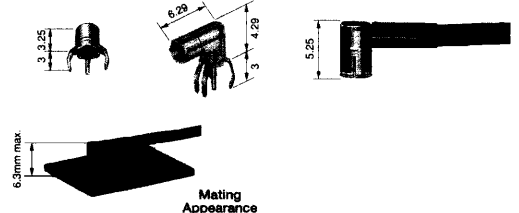


BFA Type

MM3325-2505

MM3326-2506

MXYP62XX



Features

- Many other types of connector are available upon request.
- High performance and high reliability.
- Products for millimeter wave and for SMT available.
- SMA type connectors have been authorized by National Space Development Agency of Japan.
- For special versions please consult our sales representative or engineer.

Minimum Quantity (order in sets only)

Part Number	Packaging Quantity	Diameter of Reel
MM4329-2700TB1	500pcs./reel	178mm
MM4329-2700TB2	3000pcs./reel	330mm
MM7329-2700TB1	1000pcs./reel	178mm
MM7329-2700TB2	4000pcs./reel	330mm

Type	Voltage (V)	Frequency (GHz)	Nominal Impedance (Ω)	Operating Temp. Range (°C)	V.S.W.R.(max.) (f:GHz)	Insertion Loss (dB) max.	Features
SMA	500	DC to 18	50	-65 to +125	1.02+0.005f	0.03 √f	Up to MIL-C-39012
SSMA	250	DC to 18	50	-65 to +125	1.07+0.01f	0.04 √f	2/3 of SMA Size
N	500	DC to 11	50	-65 to +125	1.08+0.008f	0.05 √f	Solidity
TNC	500	DC to 15	50	-65 to +125	1.07+0.007f	0.06 √f	Antivibration
BFA	250	DC to 4	50	-40 to +90	1.2	—	Small/High Performance
CCR	250	DC to 2	50	-40 to +90	1.2	—	SMT Low Profile
FSC	250	DC to 3	50	-40 to +90	1.2	—	SMD for High Density

Adapters

In-series adapters and between-series adapters are also available.



Cable Assemblies

Many variations of cable assembled connectors are available.

