



2014

RF & MICROWAVE

RF Custom design & Manufacture

Filters

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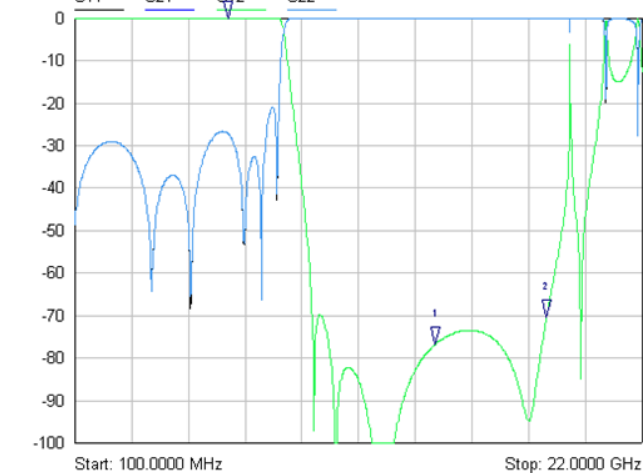
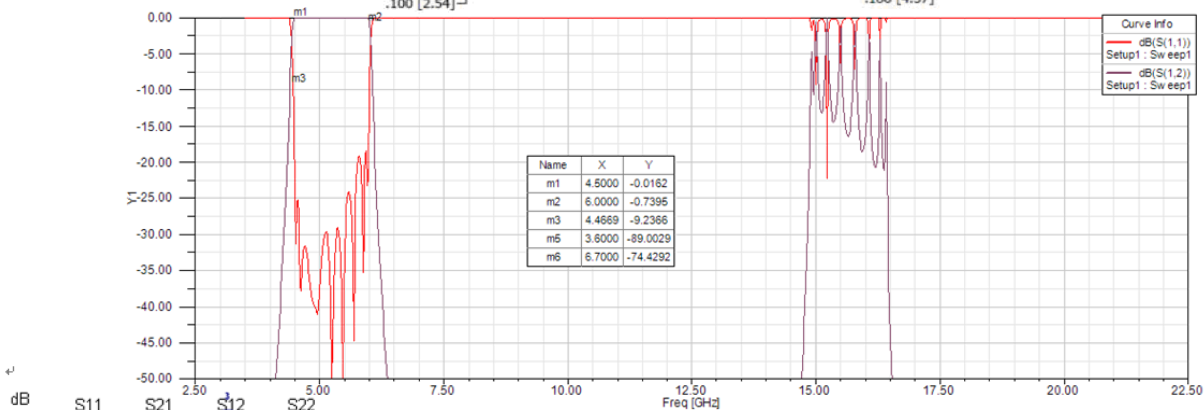
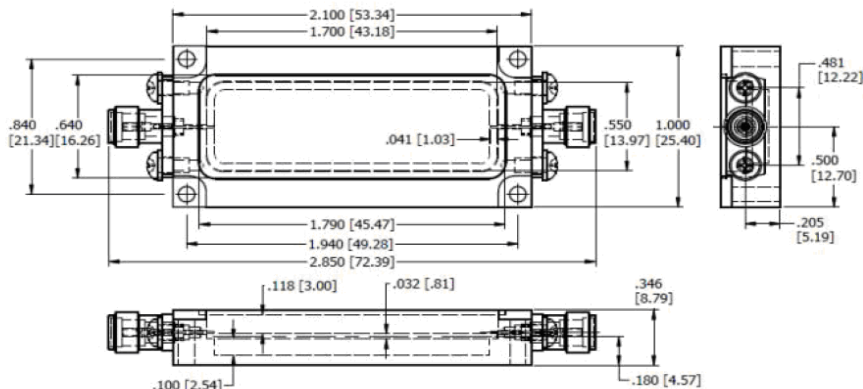
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Aviation Passband Filter



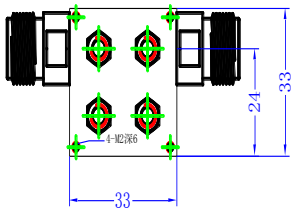
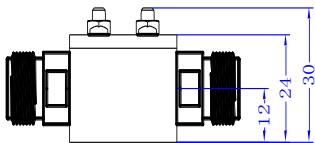
Pass Band Frequency Range	4.5~6.0GHz
Pass Band Insertion Loss	≤ 1.0(dB)
Stop Band Frequency Range	DC~3.6GHz, 6.7~15GHz
Stop Band Loss	≥ 70 (dB)
VSWR	≤ 1.4
Package Type	SMA female*2
Impedance	50±1Ω @ I/O
Size, connector	Figure 1
Mounting Holes	Figure 1
Power Handling	1W
Operating Temperatures	-55~+85℃
Flatness	less than +/- 1 dB



Mkr	Trace	X-Axis	Value
1	S21	14.0000 GHz	-76.80 dB
2	S21	18.3000 GHz	-70.40 dB
3	S21	6.0000 GHz	-0.02 dB

4.9G & 5.8G Indoors & Outdoors IP65
Bandpass Filters

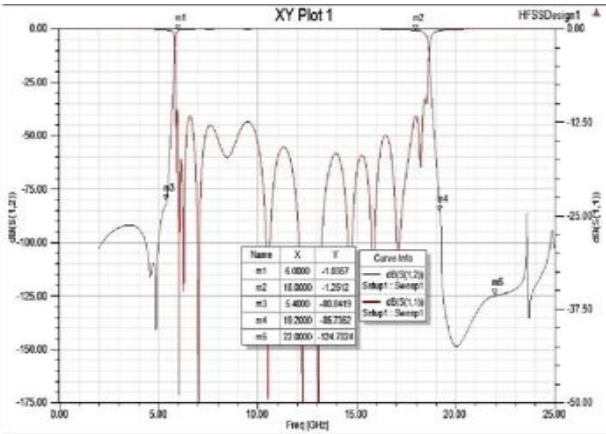
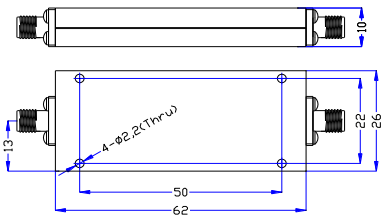
Center Frequency	4965MHz	5800MHz
Bandwidth	50MHz	150MHz
Insertion Loss	≤1.0dB	≤0.5dB
Ripple	≤1.0dB	≤1.0dB
Return Loss	≥10dB	≥10dB
Power	50W	50W
Impedance	50Ω	50Ω
Rejection	≥6dB@4890MHz ≥6dB@5040MHz	≥6dB@5570MHz ≥6dB@6030MHz
Operating Temperature	-40℃ ~ +85℃	-40℃ ~ +85℃
Surface Finish	Black Paint	Black Paint
Port Connectors	N-Female	N-Female
Waterproof ability	IP 65	IP65
Configuration	As Below (Tolerance±0.2)	As Below (Tolerance±0.2)



Compact Wideband Bandpass Filters

3–6GHz & 6–18GHz Miniature Bandpass Filter for Equalizer

- ✓ Support Equalizer, freq.-dependent processing of audio signals
- ✓ Support Comm & Telecom Apps
- ✓ High Attenuation value, Low IL
- ✓ 50 ohms, Power ≤ 5Watt
- ✓ *Specs are subject to final confirmation.*



Frequency	4.5GHz	12GHz
Pass Band Frequency	3.0~6.0GHz	6.0~18.0GHz
IL	≤ 1.0dB	≤ 2.5dB
VSWR	≤ 1.6:1	≤ 1.8:1 (Type ≤ 1.6:1)
Stop Band Atten	≥ 45dB@DC ~ 2.0GHz ≥ 45dB@7.0 ~ 8.0GHz	≥ 60dB@DC ~ 5.4GHz ≥ 60dB@19.2 ~ 22.0GHz
Surface Finish	Original Silver Color	Guide Oxygen Black Paint
Connectors	SMA-Female	SMA-Female

Aerospace and Defense Filters

Suspended Substrate Stripline Filters



High Pass Filter Series

Model	3dB Cut off(GHz)	1dB Pass Band(GHz)	Insertion Loss(dB)	VSWR	Stop Band Rejection (dB@GHz)	Power Handling(W)	Connectors	Size LxWxH(mm)
TA0138-HS	1	1.1 ~ 4	≤1.0	≤2.0	≥45@DC ~ 0.85 (Type50)	15	SMA-F	71x40x10
TA0139-HS	2	2.2 ~ 12	≤1.0	≤2.0	≥45@DC ~ 1.7 (Type50)	15	SMA-F	38x34x10
TA0140-HS	3	3.3 ~ 12	≤1.0	≤2.0	≥45@DC ~ 2.55 (Type50)	15	SMA-F	35x31x10
TA0141-HS	4	4.4 ~ 12	≤1.0	≤2.0	≥45@DC ~ 3.4 (Type50)	15	SMA-F	34x25x10
TS-A0107-HS	5	5.5 ~ 16	≤1.0	≤2.0	≥45@DC ~ 4.25 (Type50)	15	SMA-F	26x25x10
TA0072-HS	6	6.6 ~ 18	≤1.0	≤2.0	≥45@DC ~ 5.1 (Type50)	15	SMA-F	29x28x10
TA0142-HS	7	7.7 ~ 18	≤1.0	≤2.0	≥45@DC ~ 5.95 (Type50)	15	SMA-F	29x23x10
TA0143-HS	8	8.8 ~ 18	≤1.0	≤2.0	≥45@DC ~ 6.8 (Type50)	15	SMA-F	23x25x10
TA0144-HS	9	9.9 ~ 18	≤1.0	≤2.0	≥45@DC ~ 7.65 (Type50)	15	SMA-F	25x24x10
TA0145-HS	10	11 ~ 18	≤1.0	≤2.0	≥45@DC ~ 8.5 (Type50)	15	SMA-F	25x23x10
TA0146-HS	11	12.1 ~ 18	≤1.0	≤2.0	≥45@DC ~ 9.35 (Type50)	15	SMA-F	24x22x10
TA0147-HS	12	13.2 ~ 18	≤1.0	≤2.0	≥45@DC ~ 10.2 (Type50)	15	SMA-F	24x21x10
TA0034-HS	----	2 ~ 18	≤1.0	≤2.0	≥50@DC ~ 1.5 (Type60)	15	SMA-F	44x17x10
TA0223-HS	----	3 ~ 18	≤1.0	≤2.0	≥65@DC ~ 2 (Type70)	15	SMA-F	31x17x10
TA0225-HS	----	4 ~ 18	≤1.0	≤2.0	≥40@DC ~ 3 (Type45)	15	SMA-F	28x17x10
TA0074-HS	----	1.5 ~ 13	≤1.0	≤2.0	≥50@DC ~ 1 (Type65)	15	SMA-F	53x20x10
TA0233-HS	----	4 ~ 18	≤1.0	≤2.0	≥40@DC ~ 2.5	15	SMA-F	22x17x10

Low Pass Filter Series

Model	3dB Cut off(GHz)	1dB Pass Band(GHz)	Insertion Loss(dB)	VSWR	Stop Band Rejection (dB@GHz)	Power Handling(W)	Connectors	Size LxWxH(mm)
TA0148-LS	1	DC ~ 0.9	≤1.0	≤2.0	≥45@1.2 ~ 4 (Type50)	15	SMA-F	120x41x10
TA0098-LS	2	DC ~ 1.8	≤1.0	≤2.0	≥45@2.3 ~ 6 (Type50)	15	SMA-F	53x36x10
TA0106-LS	3	DC ~ 2.7	≤1.0	≤2.0	≥45@3.45 ~ 8 (Type50)	15	SMA-F	41x34x10
TA0149-LS	4	DC ~ 3.6	≤1.0	≤2.0	≥45@4.6 ~ 10 (Type50)	15	SMA-F	39x27x10
TA0150-LS	5	DC ~ 4.5	≤1.0	≤2.0	≥45@5.8 ~ 12 (Type50)	15	SMA-F	35x24x10
TA0137-LS	6	DC ~ 5.4	≤1.0	≤2.0	≥45@6.9 ~ 14 (Type50)	15	SMA-F	35x22x10
TA0151-LS	7	DC ~ 6.3	≤1.0	≤2.0	≥45@8 ~ 15 (Type50)	15	SMA-F	33x22x10
TA0152-LS	8	DC ~ 7.2	≤1.0	≤2.0	≥45@9.2 ~ 16 (Type50)	15	SMA-F	33x21x10
TA0079-LS	9	DC ~ 8.1	≤1.0	≤2.0	≥45@10.4 ~ 16.5 (Type50)	15	SMA-F	25x19x10
TA0153-LS	10	DC ~ 9	≤1.0	≤2.0	≥45@11.5 ~ 17 (Type50)	15	SMA-F	24x18.5x10
TA0154-LS	11	DC ~ 9.9	≤1.0	≤2.0	≥45@12.5 ~ 17.5 (Type50)	15	SMA-F	23x18.5x10
TA0155-LS	12	DC ~ 10.8	≤1.0	≤2.0	≥45@13.8 ~ 18 (Type50)	15	SMA-F	20x18x10
TA0229-LS	13	DC ~ 11.7	≤1.0	≤2.0	≥45@15 ~ 19 (Type50)	15	SMA-F	20x17.5x10
TA0224-LS	14	DC ~ 12.6	≤1.0	≤2.0	≥45@16.1 ~ 20 (Type50)	15	SMA-F	19x17.5x10
TA0173-LS	----	DC ~ 2	≤1.0	≤2.0	≥50@2.5 ~ 13 (Type55)	15	SMA-F	83x35x10
TA0071-LS	----	DC ~ 2.75	≤1.6	≤1.7	≥40@3 ~ 8.5 (Type45)	15	SMA-F	59x39x10

C-Band 6750MHz BPF

- L-Band (1-2 Ghz)
- S-Band (2-4 Ghz)
- C-Band (4-8 Ghz)
- X-Band (8-12 Ghz)
- Ku-Band (12-18 Ghz)
- Ka-Band (26-40 Ghz)

Specification	
Parts Number	ST-A1614-S12
Center Freq (Fo)	6750 MHz
Bandwidth	600 MHz (6450~7050MHz)
Insertion Loss	<1.0dB
Stop Band Rejection	>80dB @DC~5500M, 11000~16500M >60dB @5500~6250M, 7250~11000M
Power Handling	<2 Watt
Temperature	-30°C ~ +70°C
Impedance	50 ohm
Connector	Input: SMA-Female Output: SMA-Male
Dimension	212x23x12 mm

S-Band 2900MHz BPF



Specification	
Parts Number	ST-A1464-Q05
Center Freq (Fo)	2900 MHz
Bandwidth	30 MHz (2885~2915MHz)
Insertion Loss	<1.5dB
Rejection	>40dB @Fo±60MHz (DC~2840M、2960~7000M)
Power Handling	<20 Watt
Temperature	-40°C ~ +70°C
Impedance	50 ohm
Connector	SMA-Female
Surface Color	Black Paint or Silver Plain
Dimension	97x30x20 mm

Ku Band 11.7GHz BPF



Specification	
Parts Number	TBF-10.95/12.45-02SMA
Center Freq (Fo)	11.7 Ghz
Bandwidth	1500 MHz (10.95~12.45GHz)
Insertion Loss	<2.0dB
Ripple Band	<0.3dB peak-peak in any 80MHz interval <1.2dB peak-peak within signal BW (1500MHz)
Rejection	>80dB @DC~10.25GHz >60dB @10.25-10.4GHz >80dB @13-14.5GHz, 15.05-16.55GHz
VSWR	<1.23 (-20dB)
Temperature	-30°C ~ +70°C
Impedance	50 ohm
Connector	SMA-K
Surface Color	Black Paint
Dimension	81x18x13 mm

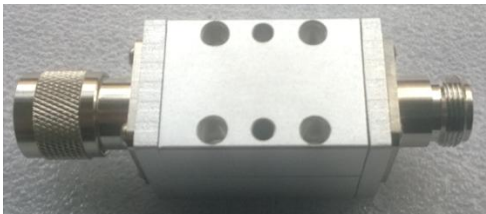
Satellite LNB Filter–Power Pass



Specification	
Parts Number	TS-1030B130-2F
Centre Freq	1030 MHz
Bandwidth	130 MHz
Insertion Loss	<3.0 dB
Rejection	20dB @ Fo+/- 100 MHz
Return Loss	>12 dB
Impedance	75 ohm
Connector	F-Female
Dimension	46x56x19 mm

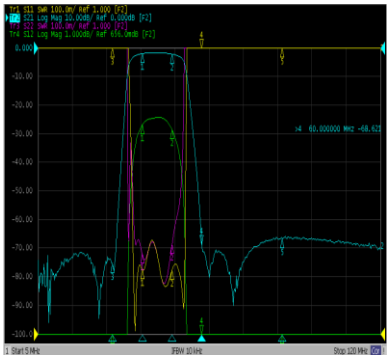
High Power S–Band Lowpass Filter

Specification	
Parts Number	TS-2.7/3.1-2N
Passband	2700~3100 MHz
Insertion Loss	<0.3dB (in Passband)
Attenuation	15dB @5400~6200 MHz 15dB @8100~9300 MHz
Power Handling	CW: 250 Watt 1300W Peak Power
Impedance	50 ohm
Connector	N-Female / Male
Surface Color	Silvery White
Dimension	50x30x30 mm



Satellite & D–TV (ch1–12) Channel BP Filters

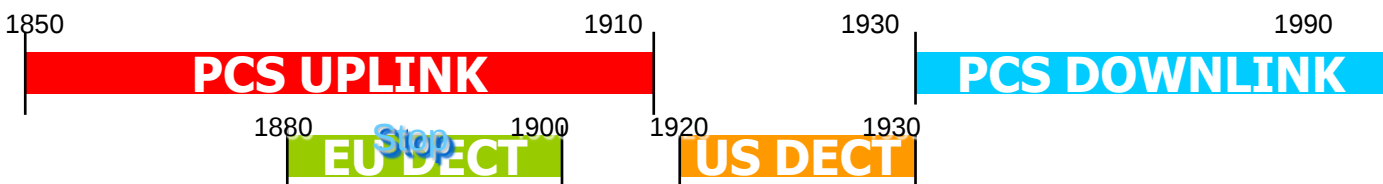
Channel	Pass Band	Channel	Pass Band
VHF-FM		K-WNW	
CH1	30-40 MHz	CH7	108-157 MHz
CH2	40-50 MHz	CH8	147-230 MHz
CH3	50-60 MHz	CH9	220-290 MHz
CH4	60-70 MHz	CH10	280-345 MHz
CH5	70-80 MHz	CH11	335-405 MHz
CH6	80-88 MHz	CH12	395-512 MHz
IL	≤ 4.0 dB		
Ripple	≤ 1.2 dB		
VSWR	≤ 1.5 : 1		
Rejection	≥ -40dB		
Power	1 Watt		
I/O PORT	50 ohm Feed		
Dimension	39*10.5*8 mm		



DECT Cavity Notch Filters

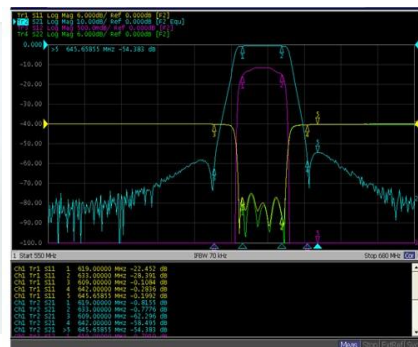


Specification	
Parts Number	ST-A1524-R08
Stop Band Freq.	1880-1900 MHz
Stop Band Attenuation	≥30dB
Pass Band Freq.	0-1867 & 1930-4500 MHz
Pass Band Insertion Loss	≤1.5dB
Pass Band Return Loss	≥14dB
Power Handling	≤50 Watt
In/Out Impedance	50 Ω



High Power 100W, 200W Notch filter for LTE Base Station

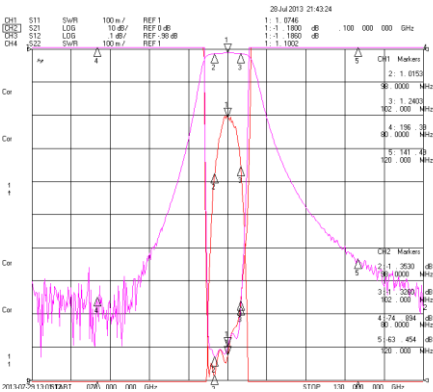
Specification	
Parts Number	TCF-541/555M-N
Frequency	541MHz ~ 555MHz
Insertion loss	≤1.0dB
Return loss	≥18dB
Rejection	300MHz ~ 532MHz ≥45dB 564MHz ~ 1000 MHz ≥45dB
Impedance	50Ω
Connector	N-F
Power	100W
SIZE	122*83*72mm



Band-Pass	FM Band	UMTS Band	GSM Band
Pass Band	88-108MHz	1920-2170MHz	880-960MHz
Insertion Loss	2.2dB	2.0dB	2.0dB
Rejection	>30dB @20M-78M >30dB @115M-3000M	>40dB @20M-1820M >40dB @2270M-3000M	>30dB @20M-845M >30dB @995M-3000M
Band-Stop	FM Band	UMTS Band	GSM Band
Stop Band	88-108MHz	1920-2170MHz	880-960MHz
Stop Band Loss	>30dB	>25dB	>30dB
Pass Band Loss	<2dB @20M-78M <2dB @115M-1800M	<2dB @20M-1820M <2dB @2270M-3000M	<2dB @20M-845M <2dB @995M-2000M
Power	> 1Watt		
Impedance	50 ohm		
Connector	Input/Output: SMA-Female		

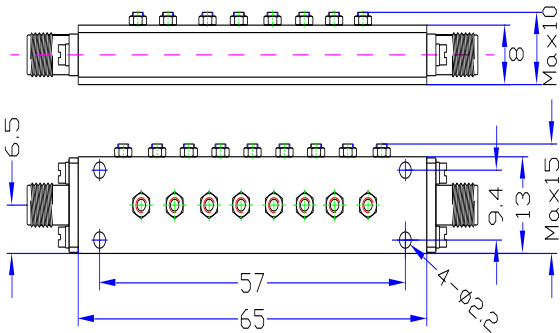
IF Convert Filters– Spiral BPF

Specification	
Parts Number	ST-A1199-LX
Center Frequency	100 MHz
Bandwidth	4MHz (98MHz ~ 102MHz)
Insertion Loss	≤3.0dB
Ripple	≤1.0dB
VSWR	≤1.3:1
Rejection	≥30dB@DC ~ 80MHz
	≥30dB@120MHz ~ 250MHz
Impedance	50Ω
Power	5 W
Surface Finish	Black Paint
Connectors	SMA-Female variable



Comb Filters

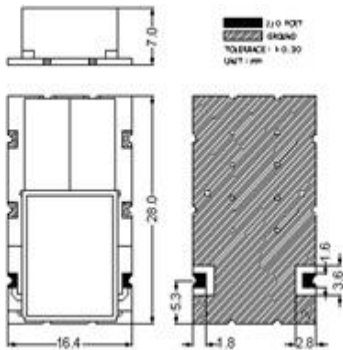
Specification	
Parts Number	TA0345-S09
1dB Pass Band Frequency	15.8 ~ 17.4GHz (F0=16.6GHz)
Insertion Loss @ Center Frequency	≤1.0dB @ 16.6GHz
VSWR	≤1.7:1
Rejection	≥80dB @ 14GHz
	≥50dB @ 20GHz
Port Connectors	SMA-Female
Operating Temperature	-40°C ~ +80°C
Surface Finish	The Original Silver Colour



Digital Broadcasting Filters

Tubular BandStop Filters– DR & Lumped

1	Center Frequency [fo]	5~787MHz
2	Insertion Loss @ fo	3.5 dB max.
3	Ripple in BW	3.5 dB max.@670MHz ~787MHz
		2.5 dB max.@5MHz ~460MHz
4	Return Loss in BW	10dB min@5~320MHz
		5dB min@321~660MHz
		10dB min@661~787MHz
5	Attenuation [Absolute Value]	8 dB min @ 791MHz
		17 dB min @ 793MHz
		20 dB min @ 794~862MHz
6	In/Out Impedance	75Ω
7	Input Power	3 W max.
8	Operation Temp Range	-40 C to +85 C

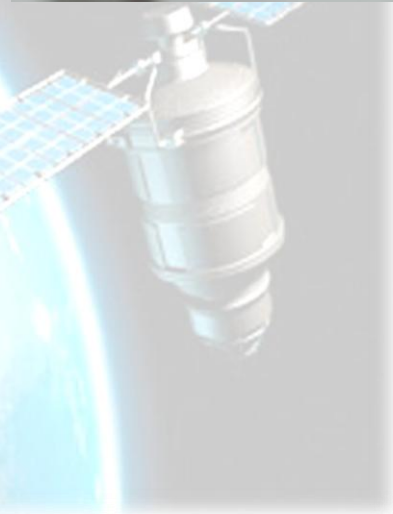


1	Impedance	75 ohm
2	Pass Band	5-790 MHz
3	Pass Band Insertion Loss	3.0dB (typ) / 5.0dB (max)
4	Stop Band	799MHz-862MHz
5	Stop Band Rejection	30dB (min)
6	Dimensions (incl. M/F connectors)	21(Φ) x 57(L) mm
7	Net Weight	48g



1	Impedance	75 ohm
2	Pass Band	5-790 MHz
3	Pass Band Insertion Loss	5-710MHz 1.0dB (typ) / 2.0dB (max)
		710-790MHz 1.5dB (typ) / 8.5dB (max)
4	Stop Band Rejection	800MHz 22dB (min)
		810MHz 40dB (min)
		821-860MHz 60dB (min)
5	Dimensions (incl. M/F connectors)	21(Φ) x 57(L) mm
6	Net Weight	48g

1	Impedance	75 ohm
2	Pass Band	5-770 MHz
3	Pass Band Insertion Loss	1.5dB (typ) / 5.5dB (max)
4	Stop Band	822MHz-862MHz
5	Stop Band Rejection	50dB (min)
6	Dimensions (incl. M/F connectors)	21(Φ) x 57(L) mm
7	Net Weight	48g



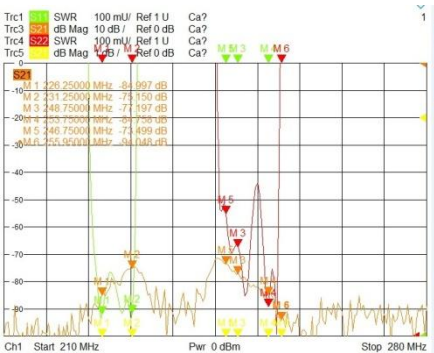
Cavity Duplexer

Parameters	RX	TX
Frequency Range	409~415MHz	418~423MHz
Insertion Loss	≤2.0dB	≤2.0dB
VSWR	≤1.3:1	≤1.3:1
Rejection)	≥50dB@418~423MHz	≥50dB@409~415MHz
Surface Finish	Black Paint	
Connectors	N-Female	
Port Sign	Port1:ANT ; Port2:RX ; Port3:TX	



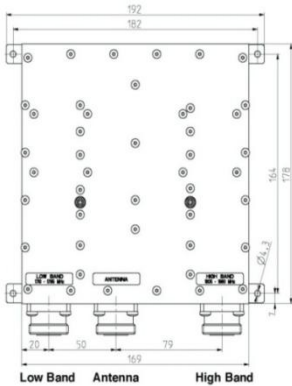
Helix Cavity Duplexer

	ANT-RX	ANT-TX
Frequency Range	248.75~253.75MHz	226.25~231.25MHz
Insertion Loss	≤3.0dB	≤3.0dB
Ripple in Band	≤1.0dB	≤1.0dB
VSWR	≤1.5	≤1.5
Rejection	≥40dB@1 ~ 216MHz ≥60dB@226.25 ~ 231.25MHz ≥40dB@300 ~ 1000MHz	≥40dB@1 ~ 216MHz ≥60dB@248.75 ~ 253.75MHz ≥50dB@300 ~ 462.5MHz ≥40dB@462.5 ~ 1000MHz
Isolation (TX/RX)	Min 74dB (Room Temperature)	
Power	10W	
Surface Finish	Black Paint	
Port Connectors	SMA-Female	
Operation Temperature	-30°C~+85°C	



Low PIM Diplexer

Pass Band	RX	TX
Frequency	1710-1785MHz	1805-1880MHz
Loss	≤0.85dB	≤0.85dB
VSWR	≤1.25dB	≤1.25dB
Rejection	1805-1880MHz≥60dB	1710-1785MHz≥60dB
Impedance	50Ω	
PORT	In DC stop between low and high	
PIM3	2tones@43dBm≤-160dBc	
Power Connectors	250W (Max)	
Dimensions (w*h*d)	192*42.5*199.6mm	483*88.1*199.6mm

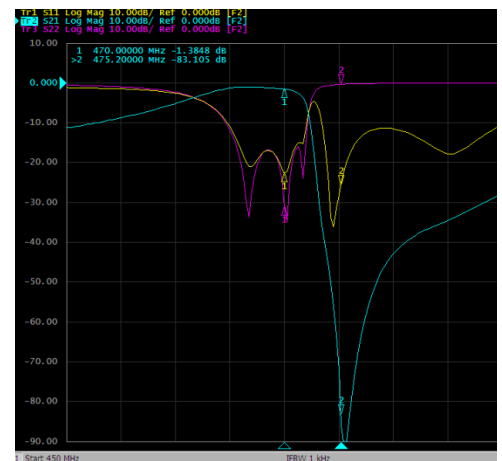


Repeater Duplexer

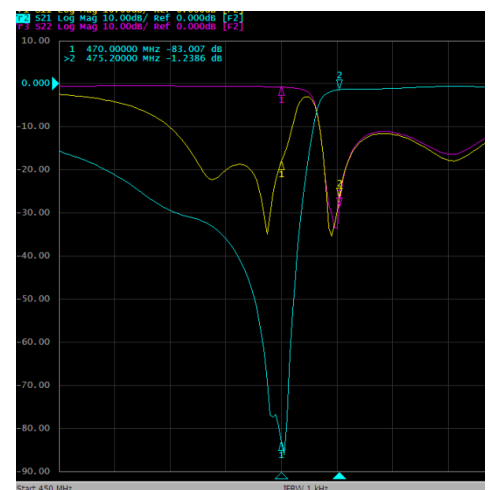
Features:

- ✓ VHF: 136~174 MHz
- ✓ UHF: 400~480 MHz & 470~512 MHz
- ✓ Low IL, 30~50 Watt & 100 Watt
- ✓ High Stability, High Isolation, High Temperature Characteristic
- ✓ Freq. Spacing upon requests: VHF 3.5~15 MHz, UHF 4~20 MHz

Freq. Range	130-180 MHz	220-240 MHz
Bandwidth	±200 KHz	±500 KHz
Freq. Spacing	5.7 MHz	7 MHz
Insertion Loss	< 1.0 dB	< 1.0 dB
Isolation	> 80 dB	> 80 dB
Suppression	> 80 dB	> 80 dB
V.S.W.R	< 1.3	< 1.3
Impedance	50 Ω	50 Ω
Power Input	30 W (Max.)	30 W (Max.)
Standard Term.	N or Q9	N or Q9
DIM (mm)	214 *154*31.5	214*154*31.5
Weight	1.2 KG	1.2 KG



Freq. Range	330-390 MHz	380-520 MHz
Bandwidth	±700 KHz	±400 KHz
Freq. Spacing	10 MHz	10 MHz
Insertion Loss	< 1.0 dB	< 1.0 dB
Isolation	> 80 dB	> 80 dB
Suppression	> 80 dB	> 80 dB
V.S.W.R	< 1.3	< 1.3
Impedance	50 Ω	50 Ω
Power Input	30/50 W (Max.)	30/50 W (Max.)
Standard Term.	N or Q9	N or Q9
DIM (mm)	275*154*31.5	223*154*31.5
	275*191*39	223*191*39
Weight	1.2/2.0 KG	1.2/2.0 KG

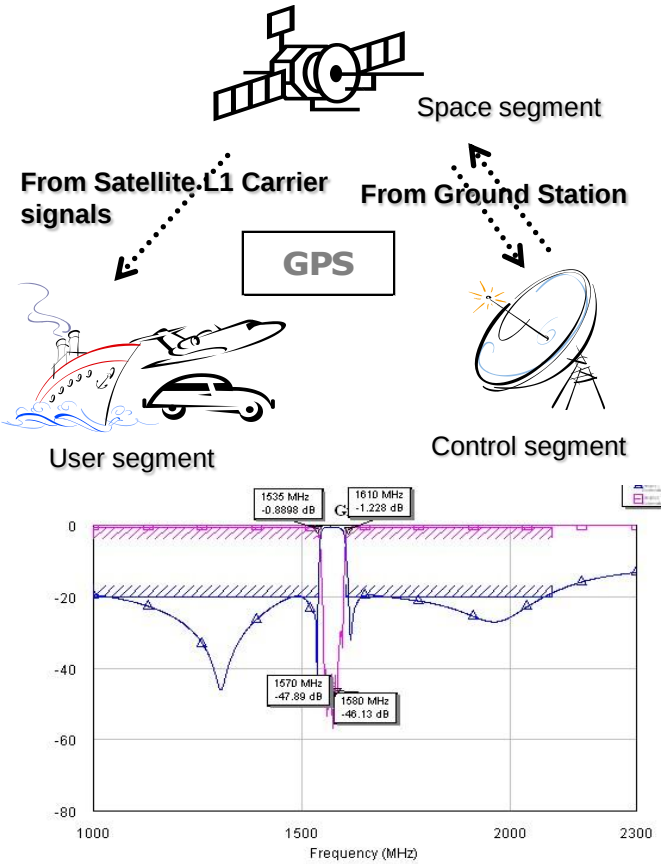


GPS Notch SMD Filters

- ✓ L1: 1575.42MHz
- ✓ L2: 1227.60MHz
- ✓ L3: 1381.05MHz
- ✓ L4: 1379.913MHz
- ✓ L5: 1176.45MHz



Reject Freq.	1575 MHz
Reject BW	10 MHz
Attenuation	35 dB min.
Pass Band [BW]	Low Band DC~1535 MHz
	High Band 1610 MHz
IL in BW	Low Band 3.0 dB max.
	High Band 3.0 dB max.
Input Power	3 Watt
In/Out Impedance	50 Ω
O.T. Range	-40℃ to +85℃
Dimension	33.5 * 18.5 * 7.5 mm



3G,4G,5G SMD BPF

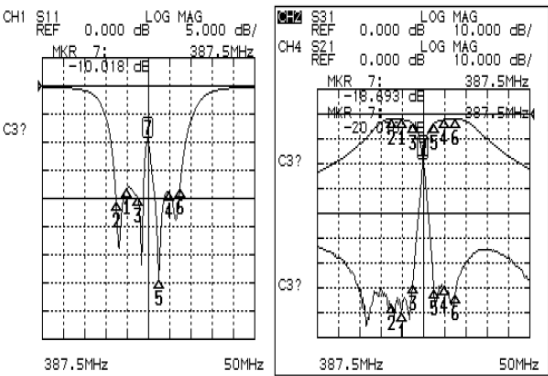
- Three Popular Frequencies Solution
- Application: Navigation, Detector, Telecommunication, Radar, Receiver, WiMAX/Wi-Fi devices and etc.
- Band Stop Filter is available.



Application Bands		DCS and WCDMA 3G	LTE 4G	WLAN 5G
Parameters / Part No.		TDRF1940B460	TDRF2545B290	TDRF5800B150
1	Pass Band	1710~2170 MHz	2400~2690 MHz	5725~5875 MHz
2	Insertion Loss	3.0 dB	3.0 dB	2.0 dB
3	Attenuation	>20.0 dB @1500M >7.0 dB @2300M	>10.0 dB @2300M >7.0 dB @2790M	>30.0 dB @5400M >30.0 dB @6200M
4	Impedance	50 ohms		
5	Input Power	2.0 Watts		
6	Operation Temperature	-40℃ to +85 ℃		

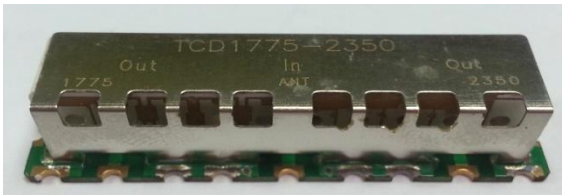
SMD TETRA Duplexers

	Lower	Upper
Frequency	382.5MHz	392.5MHz
Bandwidth	Fo±2.5 (380-385M)	Fo±2.5 (390-395M)
Insertion Loss	4.0dB (Model A) 2.8dB (Model B)	4.0dB (Model A) 2.8dB (Model B)
Ripple	2.5 dB	2.5 dB
Attenuation	60dB @390~395M (Model A) 25dB @390~395M (Model B)	60dB @390~395M (Model A) 25dB @390~395M (Model B)
Operating Temperature	-40 °C to +85 °C (Model A) -20 °C to +70 °C (Model B)	
Impedance	50Ω	
Input Power	10 W	



SMD Multiplexer (Multi-Channels Filters)

- Integrate several signals in one module to save board space.
- Applications: Microwave Telecommunication, Radar, Aviation, Navigation, Mining, Electronics counterwork, Channel Management, Satellite-Ground etc.
- SMD, Connector and Niddle type are available.



ELECTRICAL SPECIFICATIONS (SMD type, 5 in 5 out demo specs)						
Parameters		CH1	CH2	CH3	CH4	CH5
1	Center Frequency	742.5	872.5	1962.5	2132.5	2593
2	Bandwidth [BW]	728-757	851-894	1930-1995	2110-2155	2496-2690
3	Insertion Loss in BW	3.0 dB max				
4	Ripple in BW	1.0 dB max				
	VSWR in BW	1.5 dB max.				
5	Attenuation [Absolute Value]	30 @ 851-894M 30 @ 1930-1995M 30 @ 2110-2155M	30 @ 728-757M 30 @ 1930-1995M 30 @ 2110-2155M	30 @ 728-757M 30 @ 851-894M 30 @ 2110-2155M	30 @ 728-757M 30 @ 851-894M 30 @ 1930-1995M	30 @ 2110-2155M
6	Input Power	3.0 W max.				
7	In/Out Impedance	50 ohm				
8	Operation Temperature	-40 °C to +85 °C				
9	Dimension	123x38x10.5 mm				

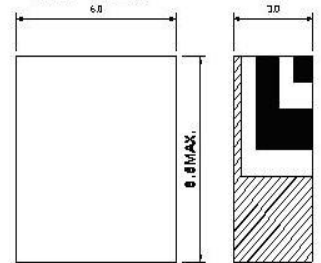
Features:

- ✓ TOKO & Murata Compatible
- ✓ Center Freq. Range: 800MHz – 6000MHz
- ✓ 2 Pole – 5 Pole
- ✓ Application: Cellular, GPS, Cordless Phone, MCA, Satellite, Spread Spectrum, CATV, TCAS, WLAN, Inmarsat, Antenna Duplexer, DR Resonator and etc.

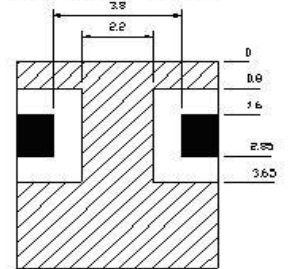
Toko No.	TDFM3A-1590J-10A	4DFA-1227D-12
Temstron Across No.	TDF32C1590S50B	TDF32C1227S10B
Frequency	1590.0 MHz	1227.0 MHz
Band Width	$f_o \pm 25\text{MHz}$ [1565MHz~1615MHz]	$f_o \pm 5\text{MHz}$ [1222MHz~ 1232MHz]
Insertion Loss	2.0 dB (Max.)	1.5 dB (Max.)
VSWR	2.0 : 1 (Max.)	2.0 : 1 (Max.)
Attenuation	10.0 min. @ $f_o \pm 140\text{ MHz}$	15.0 min. @ $f_o + 140\text{ MHz}$ 20.0 min. @ $f_o - 140\text{ MHz}$
Impedance	50 Ω	
Operation Temp	-40°C to +85°C	
Toko Dimensions	4.5 x 5.1 x 2.8mm	12.5x 14 x 5.0mm
Temstron DIM.	7.5 x 6.0 x 3.0mm	6.5 x 6.0 x 3.0mm



TOP VIEW



BOTTOM VIEW



Tolerance Unless
Otherwise Specified : ± 0.20
Unit : mm

- ✓DR Filters
 - ✓DR Duplexers
 - ✓DR Resonators
- Custom Design, Upon your requests

	Di-electric Filter	Di-electric Duplexer
Frequency	902.5 MHz	TX 830.0 MHz/ RX 875.0 MHz
Band Width	$f_o \pm 12.5\text{MHz}$ [890MHz~915MHz]	$f_o \pm 5\text{MHz}$
Insertion Loss	2.5 dB (Max.)	2.5 dB (Max.)
VSWR	1.7 (Max.)	1.7 (Max.)
Attenuation	12.0 min. @ $f_o \pm 32.5\text{ MHz}$	45.0 @ $f_r \pm 5.0$
Temstron DIM.	11.0 x 4.5 x 15.0mm	24.0 x 10.0 x 4.1mm



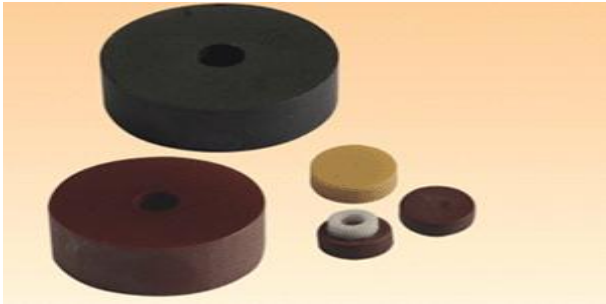
TE Dielectric Resonators

Features	Applications	
High Dielectric Contant High Q Low temperature coefficient Low cost	Cellular Base Station Dielectric Resonator Antennas Direct Broadcast Satellite Receivers Filters and Combiners	LMDS/MMDS Wireless Cable TV LNB PCS / PCN Filters and Combiners Police Radar Detectors

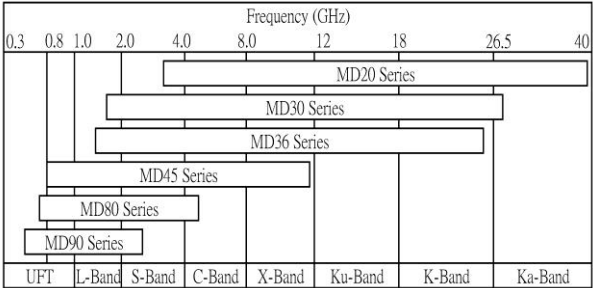
Available Range						
Material Series	Dielectric Contant	Fo. Q (1/tan δ)	Temperature Coefficient (ppm/°C)	Insulation Resistance (Ω-cm)	Application Frequency Range	Application Range
TMD20	19~22	6,000@ 10GHz	-3 ~ +6	>10 ¹⁴	Refer Frequency Chat	Refer Frequency Chat
TMD30	29~30	15,000@ 10GHz	-3 ~ +6	>10 ¹⁴		
TMD36	35~37	10,000@ 4GHz	-3 ~ +9	>10 ¹⁴		
TMD45	44~46	10,000@ 4GHz	-6 ~ +9	>10 ¹⁴		
TMD80	79~81	7,000@ 1GHz	-3 ~ +9	>10 ¹⁴		
TMD90	89~91	7,000@ 1GHz	-4 ~ +12	>10 ¹⁴		

Principal Parameters							
Part No.	Dielectric Contant	Resonant Frequency (MHz)	Temperature Coefficient (ppm/°C)	Unloaded Q value (min)	Outer Dimension (mm)	Inter Dimension (mm)	Thickness (mm)
TMDR-862-2.3A	44-46	862	-6 ~ +9	23000	60.5	21.59	27
TMDR-888-2.5A	44-46	888	-6 ~ +9	25000	60.5	21.59	23
TMDR-1980-1.2A	35-37	1980	-3 ~ +9	12000	28.2	6	12.5

Configuration



Frequency Chart



Parts Number

TMDR - -

① ② ③ ④

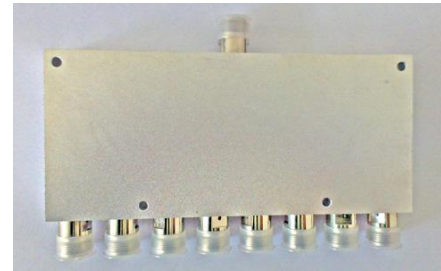
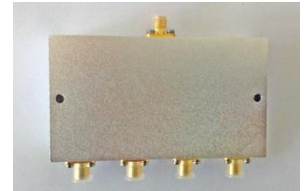
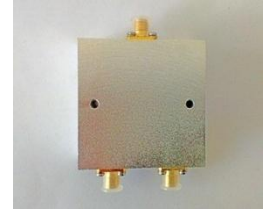
① Temstron Dielectric Resonator
② Resonant Frequency
③ Q value
④ Versions

Configuration



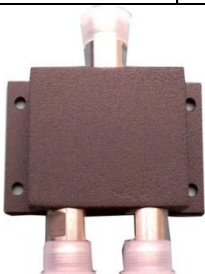
800M–2.5G Power Divider

Part Number	TPD-0.8/2.5-2S	TPD-0.8/2.5-4S	TPD-0.8/2.5-8N
Type	2 Way	4 Way	8 Way
Frequency Range	0.8~2.5GHz		
Insertion Loss	$\leq 0.5\text{dB}$	$\leq 0.6\text{dB}$	$\leq 1.2\text{dB}$
Isolation	$\geq 20\text{dB}$		
VSWR	$\leq 1.30:1$	$\leq 1.35:1$	$\leq 1.5:1$
Power Handling	Forward ≤ 20 Watts Reversed ≤ 1 Watt		
OT Range	- 20°C ~ + 65 °C		
Impedance	50Ω		
Port Connectors	SMA-Female	SMA-Female	N-Female
Surface Color	Silver White		
Dimension	50.8*50.8*29mm	89*50*19.5mm	180*80*22mm



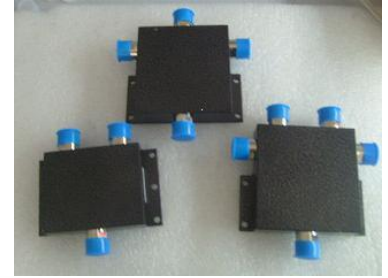
700M–2.7Ghz Power Divider

Model	2-Way	3-Way	4-Way
TPD-0.7/2.7	1 In, 2 Out	1 In, 3 Out	1 In, 4 Out
Cover Frequency	700MHz to 2700MHz		
Insertion Loss	$\leq 0.5\text{dB}$	$\leq 1.2\text{dB}$	$\leq 0.8\text{dB}$
VSWR	$\leq 1.3:1$	$\leq 1.65:1$	$\leq 1.3:1$
Isolation	$\geq 20\text{dB}$	$\geq 16\text{dB}$	$\geq 20\text{dB}$
Power Handling	50 Watts Max.		
Port Connector	N-Female or SMA for option		
Impedance	50 ohm		
Temperature	Operate at -25°C ~ +65°C		
Package	Indoors (IP65 Outdoors upon requests)		
Dimensions (mm)	75 x 46 x 19	84 x 77 x 19	94 x 77 x 19



Cavity Power Splitter

Frequency(MHz)	350-2700MHz		
Product Name	2 way	3 way	4 way
Insertion Loss(dB)	≤3.2	≤5.4	≤6.5
VSWR	≤1.25:1		
Power Capacity(W)	200		
Impedance(ohm)	50		
RF Connector	N-female or DIN(7/16)-female		
Application	Indoor		
Operating Temperature(deg)	-35~+60		
Color	Black-plated or Silvery-white Plated		
Material	Aluminum		
Relative Humidity	5%-95%		



Micro-Strip Power Splitter

Insertion Loss(dB)	≤3.4max	≤5.5max	≤6.5max
Isolation(dB)	≥20		
	≥16		
Power Rating(W)	50		
Impedance(ohm)	50		
VSWR	≤1.30:1		
RF Connector	N-type or SMA-type		
Dimensions (mm)	210.1×60.4×20	235.4×60.4×18	235.4×60.4×18
Including Connectors			
Weight(kg)	0.175	0.21	0.23
Color	Black-plated		
Relative Humidity	5%-95%		
Temperature(deg)	-35~+60		
Application	Indoor or Outdoor		

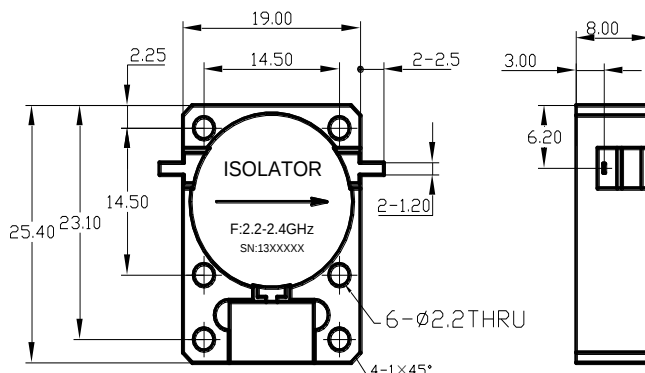


CATV, D-TV Power Splitter (75 ohm)

Specification		2 WAY		3 WAY		4 WAY		6 WAY		8 WAY	
	Frequency Range	TYP	QA	TYP	QA	TYP	QA	TYP	QA	TYP	QA
Insertion loss	5-40MHz	4.5	5.5	8.0	8.5	9.0	10.0	11.0	12.0	12.5	13.5
	40-862MHz	4.5	5.5	8.0	8.5	9.0	10.0	11.0	12.0	12.5	13.5
	862-1750MHz	5.5	6.0	10.0	10.5	11.5	12.0	14.5	16.0	16.0	17.5
	1750-2050MHz	5.5	6.0	10.0	10.5	11.5	12.0	15.0	16.0	16.0	17.5
	2050-2450MHz	5.5	6.5	11.0	11.5	12.0	12.5	16.5	17.5	17.5	18.5
Isolation	5-40MHz	20	16	22	18	25	20	25	20	25	20
	40-862MHz	35	29	35	29	35	29	35	29	35	29
	862-1750MHz	23	20	23	20	23	20	23	20	23	20
	1750-2050MHz	23	20	23	20	23	20	23	20	23	20
	2050-2450MHz	23	20	23	20	23	20	23	20	23	20
Return loss input	5-40MHz	12	10	12	10	12	10	12	10	10	8
	40-862MHz	12	10	12	10	12	10	12	10	10	8
	862-1750MHz	12	10	12	10	12	10	12	10	12	10
	1750-2050MHz	12	10	12	10	12	10	12	10	12	10
	2050-2450MHz	12	10	12	10	12	10	12	10	12	10

Isolator

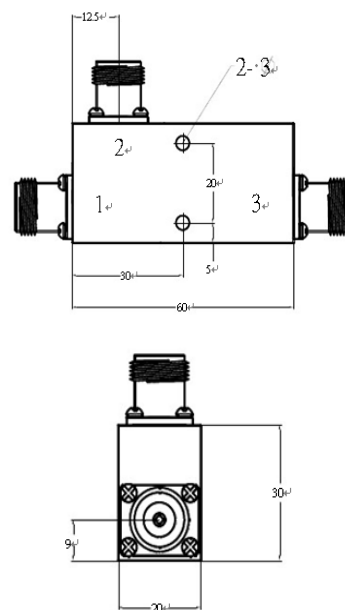
Items	Room Temp.	-20°C ~+85°C
Frequency Range	2.2~2.4GHz	2.2~2.4GHz
Insertion Loss	≤0.3dB	≤0.35dB
Isolation	≥22dB	≥20dB
VSWR	≤1.20:1	≤1.25:1
Forward Power	100W	
Reverse Power	100W	
Operating Temperature	-20°C ~+85°C	
Port Connectors	Micro-strip W/W	
Direction	As drawing ; left to right	



GB/T 1804-2000

Circulator

Items	Specifications
Frequency	1850MHz-1910MHz & 1930MHz-1990MHz
Insertion Loss	1-2 ≤ 0.5dB , 3-1 ≤ 1.5dB
Ripple	0.5 (3-1)
Isolation	3-2 , 2-1 ≥ 21dB 1-3 ≥ 45dB
VSWR	≤ 1.25:1
Operating Temp	-20~+70°C
Forward Power	50W
Reverse Power	20W
Input Port / Output Port	F-Female / F-Female



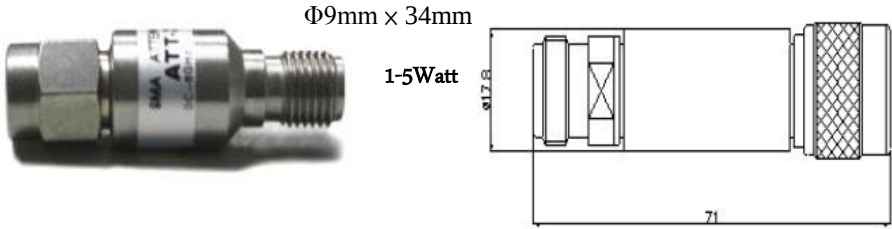
3 Db Hybrid Couplers

Frequency Range	800-2500MHz	700-2700MHz	800-2700MHz
Insertion Loss	≤0.5dB		
Coupling	3±0.5 dB	3±0.7 dB	3±0.7 dB or 3±0.5 dB
Isolation	≥20 dB		
VSWR	≤1.3:1		
Impedance	50 OHMS		
Power Handling	200 Watts		300 Watts or 500 Watts
IM3	≤-140dBc@(+43dBm×2)		
Port Connectors	N-Female		N-Female of DIN- F
Operate Temperature	-20℃ to +60℃		-30℃ to +70℃



RF Coaxial Attenuator

Freq Range	Attenuation Value &							VSRW
	3~6	10	20	30	40	50	60	
DC-3GHz	±0.5	±0.8	±1.0	±1.0	±2.0	±2.5	±3.0	≤1.20
DC-5GHz	1~9	10	20	30	40			≤1.25
	±0.6	±0.6	±0.6	±1.0	±1.2			
DC-8GHz	±0.7	±0.7	±0.7	±1.0	±1.2			≤1.25
DC-12.4GHz	±1.0	±0.7	±1.0	±1.2	±1.5			≤1.35
DC-18GHz	±1.2	±1.0	±1.2	±1.5	±1.8			≤1.40
Impedence	50 Ohm							
Connector	N or SMA or DIN -male or female							
Average Power (option)	1-5W, 10W, 30W, 50W, 100W, 200W or more higher							
Temperature (°C)	-40 ~ +80 or -55 ~ +125							
IP Grade (option)	IP60 or IP65							
Color (option)	Black or Silver							



Coaxial DC-3G (2G) Dummy Loads/Termination Loads

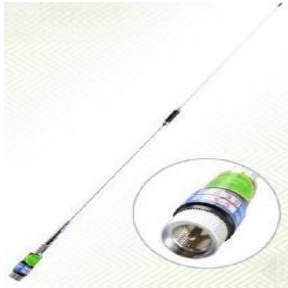
Frequency	DC-3GHz					
VSWR	≤ 1.20:1					
Power	5w(2w)	10w	30w	50w	100w	200w
Impedance	50 ohm					
Connector	N-type or DIN-type					
Temperature	-40~+125					
Humidity	5%-95%					



Antenna for Vehicle Mobile Radio

No.	Model	Frequency (MHz)	Bandwidth (MHz)	Gain (dBi)	Max. Power Input Watts	Diameter of Chassis	Connector	Length	Net Weight
1	TAT-401	400~470	10~15	5.5	100	27mm	SL16-J	93CM	158g
2	TAT-7220S	144 & 430	6~12	2.15 & 3	100	18mm	SL16-J	43CM	110.6g
3	TAT-770R	144 & 430	5~12	2.15 & 5.5	70	20mm	SL16-J	98CM	145.2g
4	TAT-770H	144 & 430	5~12	2.15 & 5.5	70	20mm	SL16-J	99CM	142g
5	TAT-507	144 & 430	5~12	2.15 & 5.2	70	21.7mm	SL16-J	74CM	165g
6	TAT-R2	144 & 430	6~12	2.15 & 3	100	18mm	SL16-J	39CM	71g
7	TAT-506	144 & 430	5~12	2.15 & 5.2	100	21.7mm	SL16-J	65CM	144.2g
8	TCB-2702	27	3	2	150	26mm	SL16-J	71CM	257g
9	TCB-2906	29	3	2	150	26mm	SL16-J	105CM	277g
VSWR		≥ 1.5			Radiation		Omni		
Impedance		50Ohm			Lighting Protection		Direct Ground		
Polarization		Vertical			Radiating Element Material		Stainless Steel		

Model No: TAT-401



Model No: TAT-7220S



Model No: TAT-770R



Model No: TAT-770H



Model No: TAT-507



Model No: TAT-R2



Model No: TAT-506



Model No: TCB-2702



CB Radio use

Model No: TCB-2906



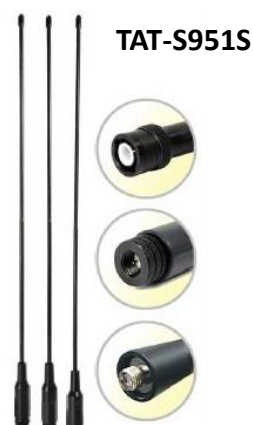
CB Radio use

Antenna for Two Way Radio System

Temstron P/N	TAT-SF20	TZJ-UV
Frequency Range (Dual Band)	136~174 / 400~470 MHz	136~174 / 400~470 MHz
Bandwidth	2 / 5 MHz	3/7 MHz
Impedance	50 ohm	50 ohm
VSWR	≤ 1.5	≤ 1.5
Gain	1.5 dBi	2.15 dBi
Polarization	Vertieal	Vertieal
Radiation	0mini	0mini
Lighting Protection	Direct Ground	Direct Ground
Input Power	10 Watt	10 Watt
Length	7 cm	18.2 cm
Connector	BNC/SMA-Male/SMA-Female/Motorola Connector	
Diameter ofChassis	14.6 mm	14.3 mm
Radiating Element Material	Copper (CU)	Copper (CU)
Net Weight	21.6 g	14.6 g



Temstron P/N	TAT-951S	TAT-771
Frequency Range (Dual Band)	144 / 430 MHz	144 / 430 MHz
Bandwidth	4 / 7 MHz	4 / 7 MHz
Impedance	50 ohm	50 ohm
VSWR	≤ 1.5	≤ 1.5
Gain	2.15 dBi	2.15 dBi
Polarization	Vertieal	Vertieal
Radiation	0mini	0mini
Lighting Protection	Direct Ground	Direct Ground
Input Power	10 Watt	10 Watt
Length	35 cm	38 cm
Connector	BNC/SMA-Male/SMA-Female/Motorola Connector	
Diameter ofChassis	14 mm	15.2 mm
Radiating Element Material	Copper (CU)	Copper (CU)
Net Weight	26.4 g	30 g



Temstron P/N	TAT-6900	TFT-U50
Frequency Range (Dual Band)	144 / 430 MHz	400~470 MHz
Bandwidth	4 / 7 MHz	6~12 MHz
Impedance	50 ohm	50 ohm
VSWR	≤ 1.5	≤ 1.5
Gain	2.15 dBi	3.5 dBi
Polarization	Vertieal	Vertieal
Radiation	0mini	0mini
Lighting Protection	Direct Ground	Direct Ground
Input Power	20 Watt	20 Watt
Length	14.3 cm	39 cm
Connector	BNC/SMA-Male/SMA-Female/Motorola Connector	
Diameter ofChassis	15 mm	13 mm
Radiating Element Material	Copper (CU)	Copper (CU)
Net Weight	28.2 g	37.8 g





- FEATURES**
- 1. Low Cost
 - 2. FM Use
 - 3. Low Profile
 - 4. Excellent Temperature Stability
 - 5. High Durability



- FEATURES**
- 1. Low Cost
 - 2. FM Use
 - 3. CHIP Type
 - 4. Excellent Temperature Stability
 - 5. High Durability

GENERIC SPECIFICATION

TT10.7 Series / TT10.7 Series Filter

Part Number	3dB Band Width.(KHz)	20dB Band Width (KHz)	Insert Loss (dB max)	Spurious Attenuation (9-12MHz) (dBmin)
TT10.7M Series of ceramic filter for FM receiver				
TT10.7MA5	280±50	650	6	-30
TT10.7MS2	230±50	600	6	-40
TT10.7MS3	180±50	520	7	-40
TT10.7MJ	150±50	400	10	-38
TT10.7MA10 Series of Ceramic Filter (Low -Loss Type)				
TT10.7MA5A10	280±50	590	2.5±2.0	-30
TT10.7MS2A10	230±50	520	3.0±2.0	-35
TT10.7MS3A10	180±50	470	3.5±1.5	-35
TT10.7MJA10	150±50	360	4.5±2.0	-35
Wide/Narrow Band-width Type TT10.7M Series of Ceramic Filter				
TT10.7MA19	350min	950	3.0±2.0	-20
TT10.7MA20	330±50	680	4.0±2.0	-30
TT10.7MHY	110±30	350	7.0±2.0	-30
TT10.7MFP	20min	95	6.0max	-24

TTCA10.7 Series / TTCV10.7 Series Filter

Part Number	3dB Band Width.(KHz)	20dB Band Width (KHz) max	Insert Loss (dB) max	Spurious Attenuation (9-12MHz) (dB) min
TTCA10.7MA5	280±50	650	6.0	30
TTCA10.7MS2	230±50	600	6.0	30
TTCA10.7MA5	280±50	590	3.0±2.0	35
TTCA10.7MS2	230±50	510	3.5±2.0	35
TTCA10.7MS3	180±40	470	4.0±2.0	35

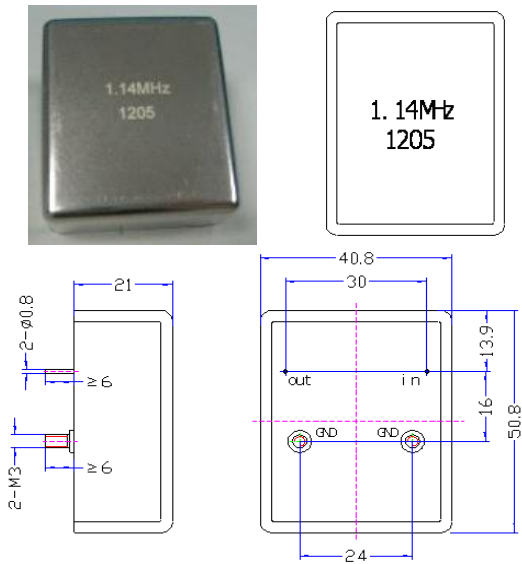
- FEATURES**
- 1. Low Cost
 - 2. Communication Use
 - 3. Low Profile
 - 4. Excellent Temperature Stability
 - 5. High Durability

TT U/W
TTM U/W Series Filter

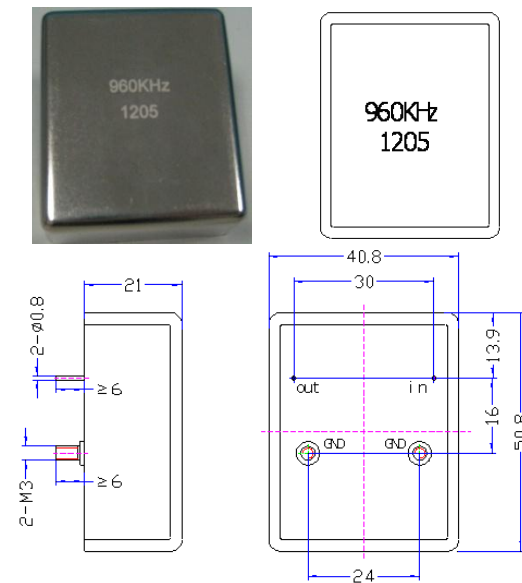


Part Number		Center Freq (KHz)	Insertion Loss (dB)max	Pass Band Ripple (dB)max	6dB Band Width (KHZ)min	40dB Band Width (KHZ)max (TT455 U)	50dB Band Width (KHZ)max (TT455 W)	Stop Band Attenuation fo±100KHz (dB)min	Input/ Output Impedance (Ω)	
								TT455 U	TT455 W	
TT455BU/W	TTM455BU/W	455±2.0	4.0	2	±15	±30	±30	28	40	1500
TT455CU/W	TTM455CU/W	455±2.0	4	2	±12.5	±24	±24	28	40	1500
TT455DU/W	TTM455DU/W	455±1.5	4	2	±10	±20	±20	28	40	1500
TT455EU/W	TTM455EU/W	455±1.5	6	2	±7.5	±15	±15	28	40	1500
TT455FU/W	TTM455FU/W	455±1.5	6	2	±6	±12.5	±12.5	28	40	2000
TT455GU/W	TTM455GU/W	455±1.5	6	2	±4.5	±10	±10	28	40	2000
TT455HU/W	TTM455HU/W	455±1.0	6	2	±3	±9	±9	28	40	2000
TT455IU/W	TTM455IU/W	455±1.0	6	2	±2	±7.5	±7.5	28	40	2000
TT455HTU/W	TTM455HTU/W	455±1.0	6	2	±3	±9	±9	35	60	2000

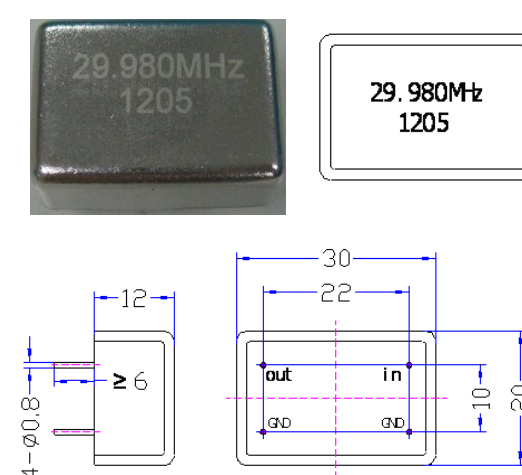
Parameters	
• Center Frequency (F_0)	1.14MHz
• Pass band (3dB Bandwidth)	3.0dB@ $F_0 \pm 1.5\text{KHz}$ Minimum
• Stop band (50dB Bandwidth)	50dB@ $F_0 \pm 4.0\text{KHz}$ Maximum
• Pass Band Insertion Loss	$\leq 6.0\text{dB}$
• Pass Band Ripple	1.0dB Maximum
• Attenuation	50dB Minimum
• Operating Temperature Range	-10°C to $+60^\circ\text{C}$
• Impedance	Input 10K Ohms; Output 10K Ohms
• Configuration	As Below (Size: $50.8 \times 40.8 \times 21\text{mm}$)



Parameters	
• Center Frequency (F_0)	960KHz
• Pass band (3dB Bandwidth)	3.0dB@ $F_0 \pm 1.5\text{KHz}$ Minimum
• Stop band (45dB Bandwidth)	45dB@ $F_0 \pm 4.0\text{KHz}$ Maximum
• Pass Band Insertion Loss	$\leq 6.0\text{dB}$
• Pass Band Ripple	1.0dB Maximum
• Attenuation	50dB Minimum
• Operating Temperature Range	-10°C to $+60^\circ\text{C}$
• Impedance	Input 2.2K Ohms; Output 2.2K Ohms
• Configuration	As Below (Size: $50.8 \times 40.8 \times 21\text{mm}$)



Parameters	
• Center Frequency (F_0)	29.980MHz
• Pass band (3dB Bandwidth)	3.0dB@ $F_0 \pm 70\text{KHz}$ Minimum
• Stop band (40dB Bandwidth)	40dB@ $F_0 \pm 160\text{KHz}$ Maximum
• Pass Band Insertion Loss	$\leq 5.0\text{dB}$
• Pass Band Ripple	3.0dB Maximum
• Operating Temperature Range	-10°C to $+60^\circ\text{C}$
• Impedance	Input 500 Ohms; Output 50 Ohms//22pf
• Configuration	As Below (Size: $30 \times 20 \times 12\text{mm}$)



7mm TYPE 7P High Frequency

7mm TYPE 7P High Frequency with Internal Capacitor

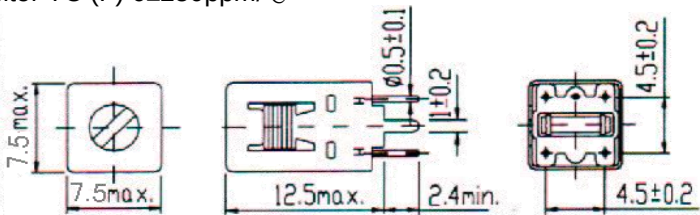
Frequency Range: 2-20MHz

Inductance Range: 1-82uH

Temperature Coefficient of: Inductor TC (L) 220±220ppm/°C

With Internal Capacitor TC (F) 0±250ppm/°C

Internal Capacitance Values: 5-100pF



Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE 7P High Frequency

TOKO Part Number	Inductance Range (uH)	Q (min.)	Test Frequency (MHz)
A119ANS-18970Z	4.7±10%	105	7.96
A119ANS-18971Z	5.6±10%	105	7.96
A119ANS-18972Z	6.8±10%	110	7.96
A119ANS-18973Z	8.2±10%	110	7.96
A119ANS-18974Z	10.0±10%	110	7.96
A119ANS-18975Z	12.0±10%	80	2.52
A119ANS-18976Z	15.0±10%	85	2.52
A119ANS-18977Z	18.0±10%	90	2.52
A119ANS-18978Z	22.0±10%	90	2.52
A119ANS-18979Z	27.0±10%	90	2.52
A119ANS-18980Z	33.0±10%	90	2.52
A119ANS-18981Z	39.0±10%	90	2.52
A119ANS-18982Z	47.0±10%	85	2.52
A119ANS-18983Z	56.0±10%	85	2.52
A119ANS-18984Z	68.0±10%	85	2.52
A119ANS-18985Z	82.0±10%	85	2.52

TYPE 7P High Frequency with Internal Capacitor

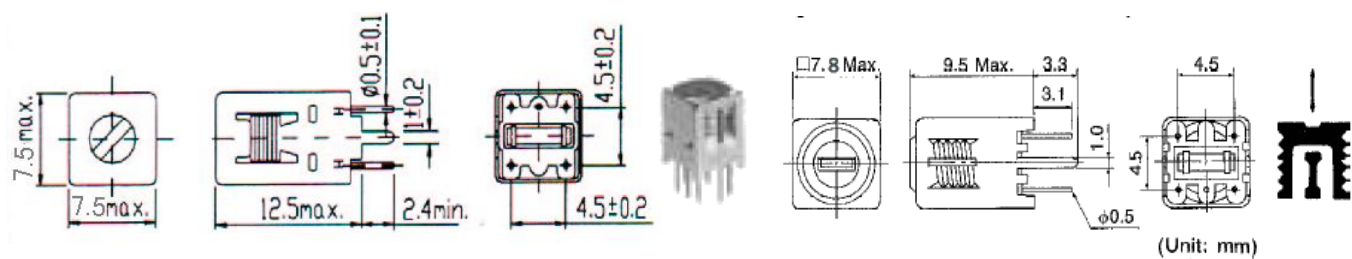
TOKO Part Number	Turns Ratio:			Tuning Capacitance(pF)	Q	Test Frequency (MHz)
	1-3/2-3	1-3/4-6	Others			
119AC-470033NO	14:3	14:3		47+5(ext)	100±20%	10.7
119AC-470052NO	14:5	14:2		47+5(ext)	110±20%	10.7
119AC-470072NO	14:7	14:2		47+5(ext)	110±20%	10.7
119AC-470073NO	14:7	14:3		47+5(ext)	110±20%	10.7
119AC-470084LO				47+3(ext)	90±20%	10.7
119AC-470112NO	14:11	14:2		47+5(ext)	120±20%	10.7
119AC-750111MO			2-3/4-6 11:1	75+5(ext)	100±20%	10.7
119AC-750112MO			2-3/4-6 11:2	75+5(ext)	100±20%	10.7
119FC-560061NO	12:6	12:1		56+0(ext)	120±20%	10.7
119FC-820051NO	10:5	10:1		82+0(ext)	110±20%	10.7
119LC-470033NO	14:3	14:3		47+5(ext)	65±20%	10.7
119LC-470053NO	14:5	14:3		47+5(ext)	70±20%	10.7
119LC-470073NO	14:7	14:3		47+5(ext)	70±20%	10.7

7mm TYPE 7PA

Frequency Range: 10-200kHz
Inductance Range: 1-25mH
Temperature Coefficient: TC(L) 250ppm/°C max
Internal Capacitance Values: 10~6800pF

7mm TYPE 7PLA

Frequency Range: 10-200kHz
Inductance Range: 1-15mH
Temperature Coefficient: TC (L) 750±250ppm/°C
Internal Capacitance Values: 10-6800pF



Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE 7PA

TOKO Part Number	Inductance Range (mH)	Q (min.)	Test Frequency (KHz)
126ANS-T1094Z	1.0±6%	60	252
126ANS-T1095Z	1.2±6%	60	252
126ANS-T1096Z	1.5±6%	60	252
126ANS-T1097Z	1.8±6%	60	252
126ANS-T1098Z	2.2±6%	60	252
126ANS-T1099Z	2.7±6%	60	252
126ANS-T1100Z	3.3±6%	60	252
126ANS-T1101Z	3.9±6%	60	252
126ANS-T1102Z	4.7±6%	60	252
126ANS-T1103Z	5.6±6%	60	252
126ANS-T1104Z	6.8±6%	60	252
126ANS-T1105Z	8.2±6%	60	252
126ANS-T1106Z	10.0±6%	60	79.6
126ANS-T1107Z	12.0±6%	60	79.6
126ANS-T1108Z	15.0±6%	60	79.6
126ANS-T1109Z	18.0±6%	60	79.6
126ANS-T1110Z	22.0±6%	60	79.6

TYPE 7PLA

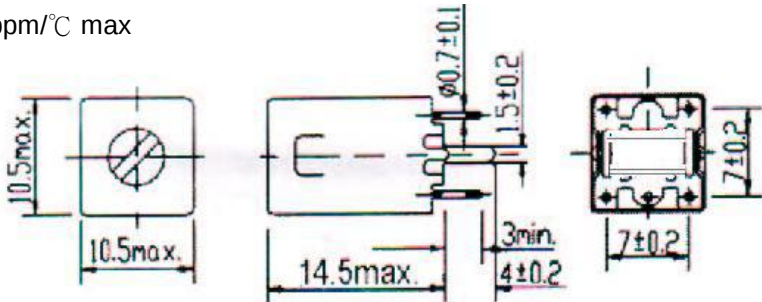
TOKO Part Number	Inductance Range (mH)	Q (min.)	Test Frequency (KHz)
284XNS-1111Z	2.7±6%	80	252
284XNS-1158Z	3.3±6%	70	252
284XNS-1356Z	3.9±4%	70	252
284XNS-1357Z	4.7±3%	80	252
284XNS-1015Z	6.8±6%	70	252
284XNS-1132Z	8.2±5%	70	252
284XNS-1394Z	10.0±5%	50	252
284XNS-1016Z	12.0±6%	50	79.6
284XNS-1017Z	15.0±6%	50	79.6

10mm TYPE 10PA

Frequency Range: 10-200kHz

Inductance Range: 1-56mH

Temperature Coefficient: TC (L) 220±220ppm/°C max



Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE 10PA

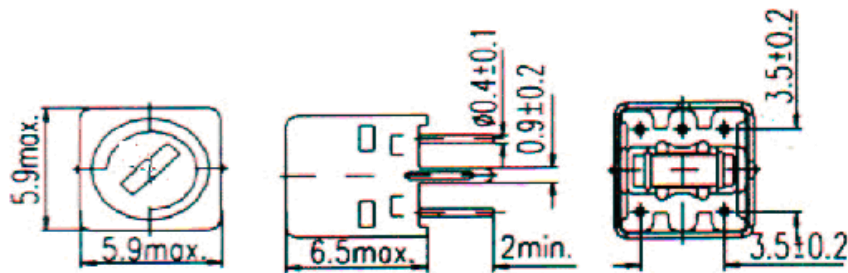
TOKO Part Number	Inductance Range (mH)	Q (min.)	Test Frequency (KHz)
CLNS-T1018Z	1.0±10%	80	252
CLNS-T1019Z	1.2±10%	80	252
CLNS-T1020Z	1.5±10%	80	252
CLNS-T1021Z	1.8±10%	80	252
CLNS-T1022Z	2.2±10%	80	252
CLNS-T1023Z	2.7±10%	80	252
CLNS-T1024Z	3.3±10%	80	252
CLNS-T1025Z	3.9±10%	80	252
CLNS-T1026Z	4.7±10%	80	252
CLNS-T1027Z	5.6±10%	80	252
CLNS-T1028Z	6.8±10%	80	252
CLNS-T1029Z	8.2±10%	80	252
CLNS-T1030Z	10.0±10%	70	79.6
CLNS-T1031Z	12.0±10%	70	79.6
CLNS-T1032Z	15.0±10%	70	79.6
CLNS-T1033Z	18.0±10%	70	79.6
CLNS-T1034Z	22.0±10%	70	79.6
CLNS-T1035Z	27.0±10%	70	79.6
CLNS-T1036Z	33.0±10%	70	79.6
CLNS-T1037Z	39.0±10%	70	79.6
CLNS-T1038Z	47.0±10%	70	79.6
CLNS-T1039Z	56.0±10%	70	79.6

5mm TYPE 5P, 5PG, 5PA, 5PAG

Frequency Range: 5P, 5PG 0.2~2.0MHz, 5PA, 5PAG 0.1-1MHz
5P, 5PG High Frequency 1-15MHz

Inductance Range: 5P, 5PG 30-680uH
5P, 5PG High Frequency 1-40UH
5PA, 5PAG 100uH-4.5mH

Temperature Coefficient: TC (L) of 5P, 5PG 850±350ppm/°C
5PA, 5PAG 750±450ppm/°C and
5P, 5PG High Frequency 220±220ppm/°C.
With Internal Capacitor TC (F) of 5P, 5PG or 5P, 5PG
High Frequency 0±250ppm/°C



Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE 5P

TOKO Part Number	Inductance Range (uH)	Q (min.)	Test Frequency (MHz)
5PNR-3509Z	47.0±5%	40	2.52
5PNR-3510Z	56.0±5%	40	2.52
5PNR-3511Z	68.0±5%	40	2.52
5PNR-3512Z	82.0±5%	40	2.52
5PNR-3513Z	100.0±5%	40	0.796
5PNR-3514Z	120.0±5%	40	0.796
5PNR-3515Z	150.0±5%	40	0.796
5PNR-3516Z	180.0±5%	40	0.796
5PNR-3517Z	220.0±5%	40	0.796
5PNR-3518Z	270.0±5%	40	0.796
5PNR-3519Z	330.0±5%	40	0.796
5PNR-3520Z	470.0±5%	40	0.796
5PNR-3537Z	560.0±5%	40	0.796
5PNR-3538Z	680.0±5%	40	0.796

TYPE 5PA

TOKO Part Number	Inductance Range (mH)	Q (min.)	Test Frequency (KHz)
451AN-0002Z	0.8±5%	65	796
451AN-0001Z	1.0±6%	50	252
451AN-0042Z	2.0±7%	40	252
451AN-0041Z	3.0±8%	50	252

TYPE 5P High Frequency

TOKO Part Number	Inductance Range (uH)	Q (min.)	Test Frequency (MHz)
332PN-3489Z	1.0±5%	55	7.96
332PN-3490Z	1.2±5%	55	7.96
332PN-3491Z	1.5±5%	55	7.96
332PN-3492Z	1.8±5%	55	7.96
332PN-3493Z	2.2±5%	55	7.96
332PN-3494Z	2.7±5%	55	7.96
332PN-3495Z	3.3±5%	55	7.96
332PN-3496Z	3.9±5%	55	7.96
332PN-3497Z	4.7±5%	55	7.96
332PN-3498Z	5.6±5%	55	7.96
332PN-3499Z	6.8±5%	55	7.96
332PN-3500Z	8.2±5%	55	7.96
332PN-3501Z	10.0±5%	55	2.52
332PN-3502Z	12.0±5%	55	2.52
332PN-3503Z	15.0±5%	55	2.52
332PN-3504Z	18.0±5%	55	2.52
332PN-3505Z	22.0±5%	55	2.52
332PN-3506Z	27.0±5%	55	2.52
332PN-3507Z	33.0±5%	55	2.52
332PN-3508Z	39.0±5%	55	2.52

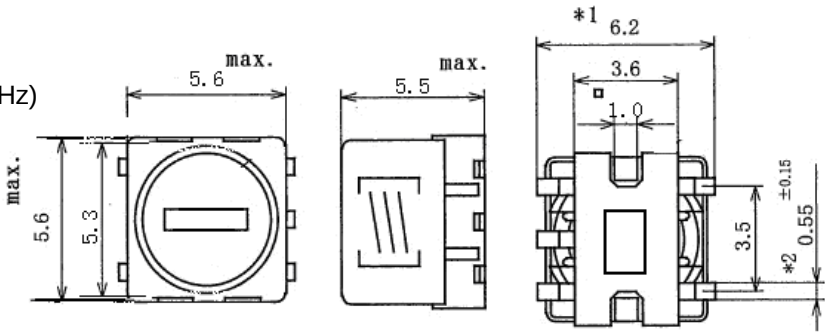
TYPE FSDV

For Reflow Soldering

Frequency Range: 0.2~15MHz

Inductance Range: 1uH~7mH

Q Approx: 60 (at 455kHz and 10.7MHz)



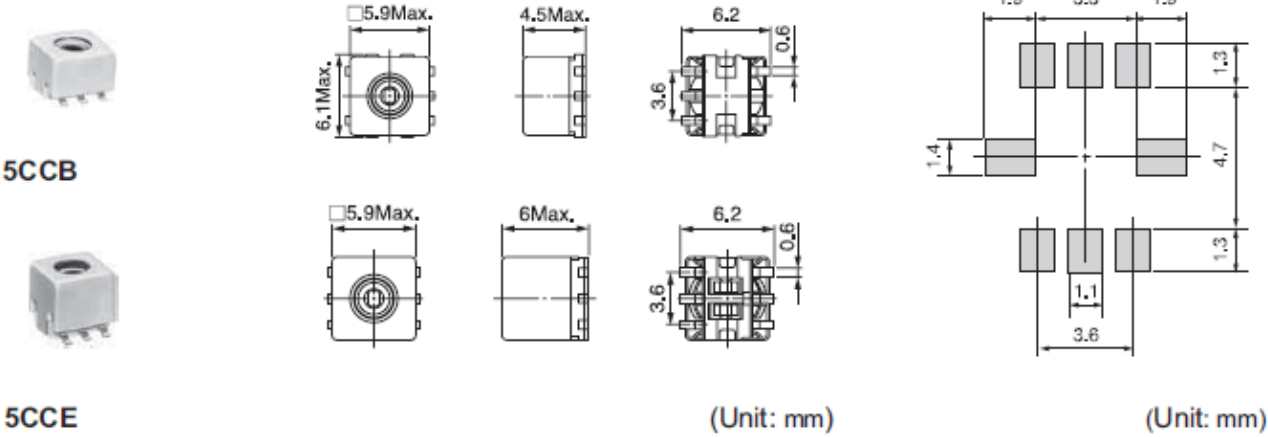
Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE FSDV

TOKO Part Number	Inductance L (uH)	Q Min.	Test Frequency (MHz)	Inductance Adjustable Range ±(%)
836BN-0075Z	1.8	40	7.96	3
836BN-0076Z	2.0	40	7.96	3
836BN-0077Z	2.2	40	7.96	3
836BN-0078Z	2.4	40	7.96	6
836BN-0079Z	2.7	55	7.96	3
836BN-0080Z	3.0	55	7.96	3
836BN-0081Z	3.3	55	7.96	3
836BN-0082Z	3.6	55	7.96	4
836BN-0083Z	3.9	55	7.96	4
836BN-0084Z	4.3	55	7.96	4
836BN-0085Z	4.7	60	7.96	4
836BN-0086Z	5.1	60	7.96	4
836BN-0087Z	6.6	60	7.96	4
836BN-0088Z	6.2	60	7.96	4
836BN-0089Z	6.8	60	7.96	4
836BN-0090Z	7.5	65	7.96	4
836BN-0091Z	8.2	65	7.96	4
836BN-0092Z	9.1	65	7.96	4
836BN-0093Z	10	50	2.52	5
836BN-0094Z	11	50	2.52	5
836BN-0095Z	12	50	2.52	5
836BN-0096Z	13	50	2.52	5
836BN-0097Z	15	50	2.52	5
836BN-0098Z	16	50	2.52	5
836BN-0099Z	18	50	2.52	5
836BN-0100Z	20	50	2.52	5
836BN-0101Z	22	50	2.52	5
836BN-0102Z	24	55	2.52	6
836BN-0103Z	27	55	2.52	6
836BN-0104Z	30	55	2.52	6
836BN-0105Z	33	55	2.52	6
836BN-0106Z	36	55	2.52	6
836BN-0107Z	39	55	2.52	6
836BN-0108Z	43	55	2.52	6
836BN-0109Z	47	55	2.52	6
836BN-0110Z	51	55	2.52	6
836BN-0111Z	56	55	2.52	6
836BN-0112Z	62	55	2.52	6
836BN-0113Z	68	35	2.52	6
836BN-0114Z	75	35	2.52	6
836BN-0115Z	82	35	2.52	6
836BN-0116Z	91	35	2.52	6
836BN-0117Z	100	45	0.796	6
836BN-0118Z	110	45	0.796	6
836BN-0119Z	120	45	0.796	6
836BN-0120Z	130	45	0.796	6
836BN-0121Z	150	45	0.796	6

TOKO Part Number	Inductance L (uH)	Q Min.	Test Frequency (MHz)	Inductance Adjustable Range ±(%)
836AN-0122Z	160	45	0.796	6
836AN-0123Z	180	45	0.796	6
836AN-0124Z	200	45	0.796	6
836AN-0125Z	220	45	0.796	6
836AN-0126Z	240	45	0.796	6
836AN-0127Z	270	45	0.796	6
836AN-0128Z	300	45	0.796	6
836AN-0129Z	330	45	0.796	6
836AN-0130Z	360	45	0.796	6
836AN-0131Z	390	45	0.796	6
836AN-0132Z	430	45	0.796	6
836AN-0133Z	470	45	0.796	6
836AN-0134Z	510	45	0.796	6
836AN-0135Z	560	45	0.796	6
836AN-0136Z	620	40	0.796	6
836AN-0137Z	680	40	0.796	6
836AN-0138Z	750	40	0.796	6
836AN-0139Z	820	40	0.796	6
836AN-0140Z	910	40	0.796	6
836AN-0141Z	1000	40	0.252	6
836AN-0142Z	1100	20	0.252	6
836AN-0143Z	1200	20	0.252	6
836AN-0144Z	1300	20	0.252	6
836EN-0145Z	1500	25	0.252	6
836EN-0196Z	1600	25	0.252	6
836EN-0197Z	1800	30	0.252	6
836EN-0198Z	2000	30	0.252	6
836EN-0149Z	2200	30	0.252	6
836EN-0199Z	2400	30	0.252	6
836EN-0200Z	2700	30	0.252	6
836EN-0201Z	3000	30	0.252	6
836EN-0202Z	3300	30	0.252	6
836EN-0154Z	3600	30	0.252	6
836EN-0203Z	3900	30	0.252	6
836EN-0204Z	4300	30	0.252	6
836EN-0205Z	4700	30	0.252	6
836EN-0206Z	5100	30	0.252	6
836EN-0159Z	5600	30	0.252	6
836EN-0207Z	6200	30	0.252	6
836EN-0208Z	6800	30	0.252	6

Variable Coils for Surface Mounting



TYPE 5CCE (for Reflow Soldering)

Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

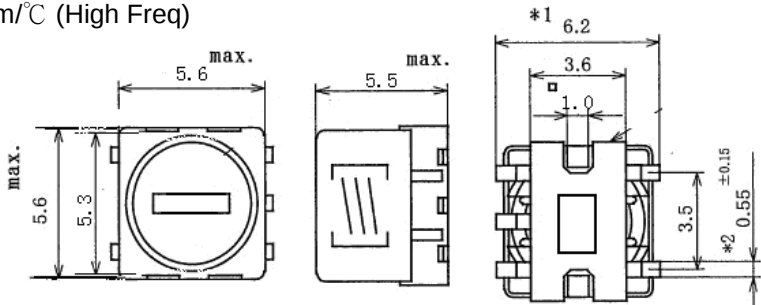
Temstron #	TOKO P/N	Inductance L (nH) & Adjustable Range ±(%)	Q	Test Frequency (MHz)	DC Resistance (Ω) Max. (Reference only)	Self-resonant Frequency (MHz) Min. (Reference only)
0150-5CCE	A638AN-0150Z	68 ± 5%	60 ± 20%	100	0.15	580
0151-5CCE	A638AN-0151Z	82 ± 5%	63 ± 20%	100	0.29	580
0152-5CCE	A638AN-0152Z	100 ± 5%	65 ± 20%	100	0.18	580
0153-5CCE	A638AN-0153Z	120 ± 5%	68 ± 20%	100	0.20	580
0154-5CCE	A638AN-0154Z	150 ± 5%	63 ± 20%	100	0.29	487
0155-5CCE	A638AN-0155Z	180 ± 5%	73 ± 20%	100	0.22	443
0156-5CCE	A638AN-0156Z	220 ± 5%	60 ± 20%	100	0.36	354
0157-5CCE	A638AN-0157Z	270 ± 5%	72 ± 20%	80	0.26	270
0158-5CCE	A638AN-0158Z	330 ± 5%	75 ± 20%	80	0.55	273
0159-5CCE	A638AN-0159Z	390 ± 5%	68 ± 20%	80	0.46	230
0160-5CCE	A638AN-0160Z	470 ± 5%	67 ± 20%	60	0.48	207
0161-5CCE	A638AN-0161Z	560 ± 5%	68 ± 20%	60	0.52	180
0162-5CCE	A638AN-0162Z	680 ± 5%	50 ± 20%	30	0.67	170
0163-5CCE	A638AN-0163Z	820 ± 5%	48 ± 20%	30	0.73	155
0164-5CCE	A638AN-0164Z	1000 ± 5%	50 ± 20%	30	1.04	136
0165-5CCE	A638AN-0165Z	1200 ± 5%	48 ± 20%	30	1.12	113
0166-5CCE	A638AN-0166Z	1500 ± 5%	48 ± 20%	30	1.26	110
0167-5CCE	A638AN-0167Z	1800 ± 5%	47 ± 20%	30	0.36	105
0168-5CCE	A638AN-0168Z	2200 ± 5%	47 ± 20%	30	2.00	100
A244-5CCE	SA638AN-A244YPL=P3	/	50 ± 20%	30	/	/

TYPE 5CCB (for Reflow Soldering)

Temstron #	TOKO P/N	Inductance L (nH) & Adjustable Range ±(%)	Q	Test Frequency (MHz)	DC Resistance (Ω) Max. (Reference only)	Self-resonant Frequency (MHz) Min. (Reference only)
A353-5CCB	S639BN-A353HM=P3	/	21 ± 20%	7.96	/	/
A354-5CCB	S639AN-A354HM=P3	/	24 ± 20%	7.96	/	/
A355-5CCB	S639AN-A355HM=P3	/	22 ± 20%	7.96	/	/

Technical Specification

- Frequency Range :0.1MHz-2MHz
0.1MHz-15MHz (High Freq)
- Inductance Range :1uH-1400uH
- Operating Temperature :-10℃ to +60℃
- Unloaded Q :30/65 (ref)
- Inductance Variable Range :Lo±3 to 5% (ref)
- Temperature Coefficient :TC(L) 80 ± 120ppm/℃
TC(L) 140 ± 120ppm/℃ (High Freq)
TC(L) -40 ± 120ppm/℃
TC(L) -80 ± 120ppm/℃ (High Freq)
- Quantity per Reel :1000pcs



Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

TYPE 5CCD

TOKO Ref	Inductance	Tol.	Qu	TestFreq of L (MHz)	Notes
614BN-9018Z	1.8uH	±3%	45	7.96	H.F.r
614BN-9021B	2uH	±3%	45	7.96	H.F.r
614BN-9022Z	2.2uH	±3%	45	7.96	H.F.r
614BN-9024IB	2.4uH	±3%	50	7.96	H.F.r
614BN-9027IB	2.7uH	±3%	50	7.96	H.F.r
614BN-9030Z	3.0uH	±3%	50	7.96	H.F.r
614BN-9033Z	3.3uH	±3%	55	7.96	H.F.r
614BN-9036IB	3.6uH	±4%	55	7.96	H.F.r
614BN-9039Z	3.9uH	±4%	55	7.96	H.F.r
614BN-9043Z	4.3uH	±4%	55	7.96	H.F.r
614BN-9047Z	4.7uH	±4%	55	7.96	H.F.r
614BN-90511B	5.1uH	±4%	65	7.96	H.F.r
614BN-9056Z	5.6uH	±4%	65	7.96	H.F.r
614BN-9062Z	6.2uH	±4%	65	7.96	H.F.r
614BN-9068Z	6.8uH	±4%	65	7.96	H.F.r
614BN-9075Z	7.5uH	±4%	65	7.96	H.F.r
614BN-9082Z	8.2uH	±4%	65	7.96	H.F.r
614BN-9091Z	9.1uH	±4%	45	7.96	H.F.r
614BN-9100Z	10uH	±5%	45	2.52	H.F.r
614BN-9110Z	11uH	±5%	45	2.52	H.F.r
614BN-9120Z	12uH	±5%	45	2.52	H.F.r
614BN-9130Z	13uH	±5%	45	2.52	H.F.r
614BN-9150Z	15uH	±5%	45	2.52	H.F.r
614BN-9160Z	16uH	±5%	45	2.52	H.F.r
614BN-9180Z	18uH	±5%	45	2.52	H.F.r
614BN-9200Z	20uH	±5%	45	2.52	H.F.r
614BN-9220Z	22uH	±5%	45	2.52	H.F.r
614BN-9240Z	24uH	±5%	45	2.52	H.F.r
614BN-9270Z	27uH	±5%	45	2.52	H.F.r
614BN-9300Z	30uH	±5%	45	2.52	H.F.r
614BN-9330Z	33uH	±5%	45	2.52	H.F.r
614BN-9360Z	36uH	±5%	45	2.52	H.F.r
614BN-9390Z	39uH	±5%	45	2.52	H.F.r
614BN-9430Z	43uH	±5%	45	2.52	H.F.r
614BN-9470Z	47uH	±5%	45	2.52	H.F.r
614BN-9510Z	51uH	±5%	45	2.52	H.F.r
614BN-9560Z	56uH	±5%	45	2.52	H.F.r
614BN-9620Z	62uH	±5%	45	2.52	H.F.r
614BN-9680Z	68uH	±5%	30	2.52	H.F.r
614BN-9750Z	75uH	±5%	30	2.52	
614BN-9820Z	82uH	±5%	30	2.52	
614BN-9910Z	91uH	±5%	30	2.52	
614BN-9100Z	100uH	±5%	45	0.796	

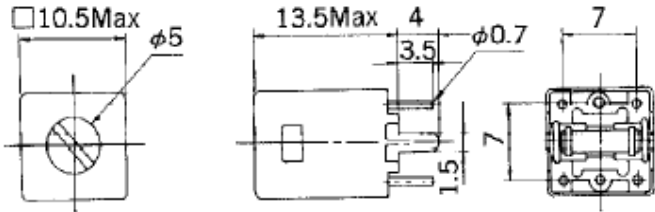
10mm TYPE 10EZ High Frequency

Frequency Range: 0.2-2MHz (10EZ)
2-15MHz (10EZ High Freq.)
Inductance Range: 1uH-2mH (10EZ)
2-55uH (10EZ High Freq.)

Temperature Coefficient of: Inductor TC (L) 750±500ppm/°C
220±220ppm /°C (10EZ High Freq.)
With Internal Capacitor TC (F) 0±250ppm/°C

Internal Capacitance Values: 150-390pF (10EZ),
5-100pF (10EZ High Freq.)

Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.



(Unit: mm)

Alternative to TOKO 10EZ VARIABLE INDUCTORS

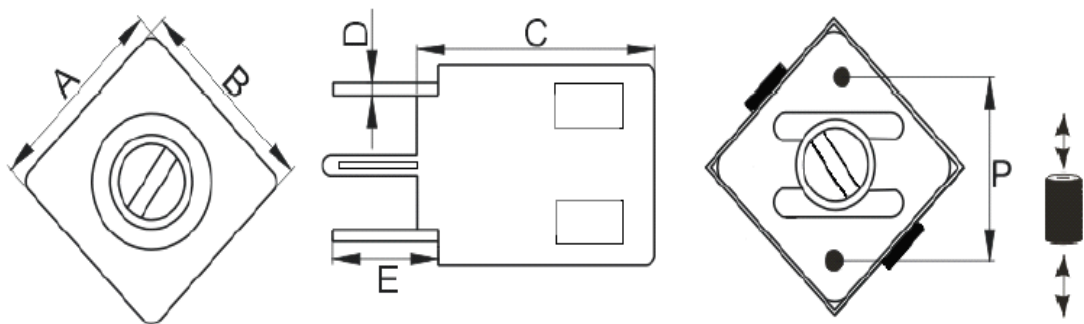
Temstron#	TOKO Part NO.	Inductance Range uH	Turns Ratio :		Q (min)	Test Freq (MHz)
			1-3/1-2	1-3/4-6		
10A6729EK-10EZ	RAN-10A6729EK	630±10%	154:29	154:4	95±20%	200
10A6845EK-10EZ	RAN-10A6845EK	630±10%	154:09	154:4	95±20%	200
T1027Z-10EZ	RUNS-T1027Z	1000±10%			50	252
T1028Z-10EZ	RUNS-T1028Z	1200±10%			50	252
T1029Z-10EZ	RUNS-T1029Z	1500±10%			50	252
T1030Z-10EZ	RUNS-T1030Z	1800±10%			50	252
6A5105BM-10EZ	RWO-6A5105BM	360±6%		98:28	80	796
6A6255N-10EZ	RWO-6A6255N	270±6%	85:3	85:8	65(@1.4MHz)	796
151208N2-10EZ	RWR-151208N2	150±6%	65:2	65:8	90(@1.4MHz)	796
151308N0-10EZ	RWR-151308N0	150±6%	65:3	65:8	90(@1.4MHz)	796
271208N2-10EZ	RWR-271208N2	270±6%	85:2	84:8	60(@1.4MHz)	796
271308N0-10EZ	RWR-271308N0	270±6%	85:3	85:8	80(@1.4MHz)	796
331208N2-10EZ	RWR-331208N2	330±6%	94:2	94:2	70(@1.4MHz)	796
331308N0-10EZ	RWR-331308N0	330±6%	94:3	94:8	70(@1.4MHz)	796
361208N2-10EZ	RWR-361208N2	360±6%	98:2	98:2	80(@1.4MHz)	796
361308N2-10EZ	RWR-361308N2	360±6%	98:2	98:8	80(@1.4MHz)	796
361412N2-10EZ	RWR-361412N2	360±6%	100:4	100:12	50(@1.4MHz)	796
T1015Z-10EZ	RWRS-T1015Z	100±10%			100	796
T1016Z-10EZ	RWRS-T1016Z	120±10%			100	796
T1017Z-10EZ	RWRS-T1017Z	150±10%			100	796
T1018Z-10EZ	RWRS-T1018Z	180±10%			100	796
T1019Z-10EZ	RWRS-T1019Z	220±10%			100	796
T1020Z-10EZ	RWRS-T1020Z	270±10%			100	796
T1021Z-10EZ	RWRS-T1021Z	330±10%			100	796
T1022Z-10EZ	RWRS-T1022Z	390±10%			100	796
T1023Z-10EZ	RWRS-T1023Z	470±10%			100	796
T1024Z-10EZ	RWRS-T1024Z	560±10%			100	796
T1025Z-10EZ	RWRS-T1025Z	680±10%			100	796
T1026Z-10EZ	RWRS-T1026Z	820±10%			100	796

10mm TYPE 10EZ With Internal Capacitor

Temstron#	TOKO Part NO.	Capacitance Value (pF)	Turns Ratio : Q		Freq (min)	Test (MHz)
			1-3/1-2	1-3/4-6		
252142N0-10EZ	RLC-252142N0	180+10(ext)	173:30	173:24	70±20%	455
352142N0-10EZ	RLC-352142N0	180+10(ext)	173:112	173:24	70±20%	455
352223N0-10EZ	RLC-352223N0	180+ 5(ext)	173:112	173:4	70±20%	455
352503N0-10EZ	RLC-352503N0	180+10(ext)	173:112	173:9	70±20%	455
352713N0-10EZ	RLC-352713N0	180+10(ext)	173:112	173:12	70±20%	455
452503N0-10EZ	RLC-452503N0	180+10(ext)	173:95	173:9	70±20%	455
4A5129EK-10EZ	RLC-4A5129EK	180+10(ext)	173:30	172:4	75±20%	455
4A5130N-10EZ	RLC-4A5130N	180+10(ext)	172:142	172:4	75±20%	455
14600A-10EZ	RMC-14600A	180+10(ext)	165:79	165:9	110±20%	455
14601A-10EZ	RMC-14601A	180+10(ext)	165:99	165:9	110±20%	455
14602A-10EZ	RMC-14602A	180+10(ext)	165:118	55:9	110±20%	455
15002A-10EZ	RMC-15002A	180+10(ext)	165:91	165:42	110±20%	455
162453N0-10EZ	RMC-162453N0	180+10(ext)	164:138	164:7	110±20%	455
202202N0-10EZ	RMC-202202N0	180+10(ext)	164:131	164:33	110±20%	455
202313N0-10EZ	RMC-202313N0	180+10(ext)	164:131	164:5	110±20%	455
202503N0-10EZ	RMC-202503N0	180+10(ext)	164:131	41:2	110±20%	455
222162N0-10EZ	RMC-222162N0	180+10(ext)	164:127	82:13	110±20%	455
222633N0-10EZ	RMC-222633N0	180+10(ext)	164:127	82:5	110±20%	455
2A6597HM-10EZ	RMC-2A6597HM	180+ 5(ext)			120±20%	455
2A7287HM-10EZ	RMC-2A7287HM	180+ 5(ext)			110±20%	455
312162N0-10EZ	RMC-312162N0	180+10(ext)	164:112	164:26	110±20%	455
402353N0-10EZ	RMC-402353N0	180+10(ext)	164:98	164:6	110±20%	455
402503N0-10EZ	RMC-402503N0	180+10(ext)	164:98	164:8	110±20%	455
452252N0-10EZ	RMC-452252N0	180+10(ext)	164:90	164:41	110±20%	455
502182N0-10EZ	RMC-502182N0	180+10(ext)	164:82	164:30	110±20%	455
502503N0-10EZ	RMC-502503N0	180+10(ext)	164:82	164:8	110±20%	455
15000A-10EZ	ROC-15000A	180+10(ext)	176:135	176:4	60±20%	455
15001A-10EZ	ROC-15001A	180+10(ext)	176:114	176:4	60±20%	455
1A5022N-10EZ	RZC-1A5022N	180+10(ext)	142:71	142:36	150±20%	455
1A6425A-10EZ	RZC-1A6425A	180+ 5(ext)	154:77	154:38	140±20%	455

TYPE 10EZ High Frequency**TYPE 10EZ High Frequency with Internal Capacitor**

Temstron#	TOKO Part NO.	Inductance Range uH	Q (min)	Test Freq (MHz)	Temstron#	TOKO Part NO.	Tuning Capacitance (pF)	Turns Ratio :		Others	Q	Test Freq (MHz)
								1-3/1-2	1-3/4-6			
T1005Z-10EZ	154ANS-T1005Z	4.7±10%	100	7.96	470032N0-10EZ	154AC-470032N0	47+5(ext)	14:3	14:2		110±20%	10.7
T1006Z-10EZ	154ANS-T1006Z	5.6±10%	100	7.96	470033N0-10EZ	154AC-470033N0	47+5(ext)	14:3	14:3		110±20%	10.7
T1007Z-10EZ	154ANS-T1007Z	6.8±10%	100	7.96	470052N0-10EZ	154AC-470052N0	45+5(ext)	14:5	14:2		120±20%	10.7
T1008Z-10EZ	154ANS-T1008Z	8.2±10%	100	7.96	470072N0-10EZ	154AC-470072N0	47+5(ext)	14:7	14:2		110±20%	10.7
T1009Z-10EZ	154ANS-T1009Z	10.0±10%	60	2.52	470073N0-10EZ	154AC-470073N0	47+5(ext)	14:7	14:3		120±20%	10.7
T1010Z-10EZ	154ANS-T1010Z	12.0±10%	60	2.52	470084L0-10EZ	154AC-470084L0	47+3(ext)			4-3/2-3 13.5:8.0	95±20%	10.7
T1011Z-10EZ	154ANS-T1011Z	15.0±10%	60	2.52						4-3/1-5 13.5:4.5		
T1012Z-10EZ	154ANS-T1012Z	18.0±10%	60	2.52	470085L0-10EZ	154AC-470085L0	47+3(ext)			4-3/2-3 13.5:8.0	85±20%	10.7
T1013Z-10EZ	154ANS-T1013Z	22.0±10%	60	2.52						4-3/1-5 13.5:5.5		
T1014Z-10EZ	154ANS-T1014Z	27.0±10%	60	2.52	7A5681EK-10EZ	154AC-7A5681EK	47+3(ext)	7:4	14:1		110±20%	10.7
T1015Z-10EZ	154ANS-T1015Z	33.0±10%	60	2.52	820111M0-10EZ	154AC-820111M0	82+5(ext)			2-3/4-6 11:1	100±20%	10.7
T1016Z-10EZ	154ANS-T1016Z	39.0±10%	60	2.52	820112M0-10EZ	154AC-820112M0	82+5(ext)			2-3/4-6 11:2	95±20%	10.7
T1017Z-10EZ	154ANS-T1017Z	47.0±10%	60	2.52	560061N0-10EZ	154FC-560061N0	56+0(ext)	2:1	12:1		120±20%	10.7
T1018Z-10EZ	154ANS-T1018Z	56.0±10%	60	2.52	820051N0-10EZ	154FC-820051N0	82+0(ext)	2:1	10:1		110±20%	10.7
T1019Z-10EZ	154ANS-T1019Z	68.0±10%	60	2.52	470033N0-10EZ	154PC-470033N0	47+5(ext)	14:3	14:3		60±20%	10.7
T1020Z-10EZ	154ANS-T1020Z	82.0±10%	60	2.52	470053N0-10EZ	154PC-470053N0	47+5(ext)	14:5	14:3		60±20%	10.7
					470073N0-10EZ	154PC-470073N0	47+5(ext)	14:7	14:3		60±20%	10.7



A	B	C	d	E	P
8.1Max	8.1Max	11.7Max	0.5±0.1	5.0±1.0	6.2±0.5

Remark: The Specification of the Replacement is subject to final confirmation which might be slight tolerance to the selection guide.

Unshielded

Part number	Color	Turns	No core L nom(nH)	L min (nH)	L nom (nH)	L max (nH)	Q min @ L nom	No core SRF min (MHz)	DCR max (mOhm)	Irms
150-01J08L	Brown	1 ^{1/2}	44.5	46.0	49.0	52.0	88 @ 50 MHz	2000	8.0	11.0
150-02J08L	Red	2 ^{1/2}	58.5	62.0	70.0	78.0	100 @ 50 MHz	1300	9.0	10.5
150-03J08L	Orange	3 ^{1/2}	77.5	82.0	98.0	114	108 @ 50 MHz	1000	10.5	9.8
150-04J08L	Yellow	4 ^{1/2}	94.5	108	130	154	114 @ 50 MHz	780	11.6	9.3
150-05J08L	Green	5 ^{1/2}	116	137	165	193	114 @ 50 MHz	650	13.2	8.7
150-06J08L	Blue	6 ^{1/2}	138	176	205	234	112 @ 50 MHz	550	14.7	8.2
150-07J08L	Violet	7 ^{1/2}	156	222	245	268	108 @ 50 MHz	510	16.0	7.9
146-01J08L	Brown	1 ^{1/2}	45.0	47.0	50.0	53.0	90 @ 50 MHz	1300	8.0	11.0
146-02J08L	Red	2 ^{1/2}	65.0	68.0	78.0	88.0	100 @ 50 MHz	780	9.0	10.5
146-03J08L	Orange	3 ^{1/2}	86.0	90.0	108	126	100 @ 50 MHz	560	10.5	9.8
146-04J08L	Yellow	4 ^{1/2}	111	117	146	175	94 @ 50 MHz	475	11.6	9.3
146-05J08L	Green	5 ^{1/2}	140	148	190	232	88 @ 50 MHz	430	13.0	8.8
146-06J08L	Blue	6 ^{1/2}	167	188	240	292	78 @ 50 MHz	390	14.5	8.3
146-07J08L	Violet	7 ^{1/2}	198	231	292	350	72 @ 50 MHz	350	15.6	8.0
146-08J08L	Gray	8 ^{1/2}	228	272	342	412	68 @ 50 MHz	330	18.0	7.5
146-09J08L	White	9 ^{1/2}	264	330	405	480	66 @ 40 MHz	320	19.4	7.2
146-10J08L	Black	10 ^{1/2}	292	390	465	540	60 @ 40 MHz	290	21.0	6.8

Shielded

Part number	Color	Turns	No core L nom(nH)	L min (nH)	L nom (nH)	L max (nH)	Q min @ L nom	No core SRF min (MHz)	DCR max (mOhm)	Irms
150-01J08SL	Brown	1 ^{1/2}	42.5	43.5	44.5	44.5	72 @ 50 MHz	1900	8.0	11.0
150-02J08SL	Red	2 ^{1/2}	54.0	56.0	60.0	64.0	80 @ 50 MHz	1450	9.0	10.5
150-03J08SL	Orange	3 ^{1/2}	68.0	71.0	76.0	81.0	84 @ 50 MHz	1100	10.5	9.8
150-04J08SL	Yellow	4 ^{1/2}	82.5	86.0	95.0	104	85 @ 50 MHz	900	11.6	9.3
150-05J08SL	Green	5 ^{1/2}	95.5	107	115	123	84 @ 50 MHz	750	13.2	8.7
150-06J08SL	Blue	6 ^{1/2}	109	125	134	143	82 @ 50 MHz	620	14.7	8.2
150-07J08SL	Violet	7 ^{1/2}	123	150	156	162	80 @ 50 MHz	560	16.0	7.9
146-01J08SL	Brown	1 ^{1/2}	44.0	45.0	46.0	47.0	76 @ 50 MHz	1550	8.0	11.0
146-02J08SL	Red	2 ^{1/2}	59.0	62.0	65.0	68.0	78 @ 50 MHz	850	9.0	10.5
146-03J08SL	Orange	3 ^{1/2}	75.0	80.0	85.0	90.0	78 @ 50 MHz	660	10.5	9.8
146-04J08SL	Yellow	4 ^{1/2}	95.0	100	110	120	78 @ 50 MHz	570	11.6	9.3
146-05J08SL	Green	5 ^{1/2}	115	120	135	150	76 @ 50 MHz	510	13.0	8.8
146-06J08SL	Blue	6 ^{1/2}	136	142	163	184	72 @ 50 MHz	470	14.5	8.3
146-07J08SL	Violet	7 ^{1/2}	155	172	194	216	68 @ 50 MHz	430	15.6	8.0
146-08J08SL	Gray	8 ^{1/2}	176	200	224	248	66 @ 50 MHz	400	18.0	7.5
146-09J08SL	White	9 ^{1/2}	202	234	260	284	60 @ 50 MHz	360	19.4	7.2
146-10J08SL	Black	10 ^{1/2}	224	260	288	315	56 @ 50 MHz	330	21.0	6.8