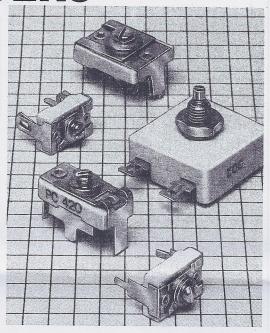
VARIABLE **COMPRESSION MICA** IMMERS AND PADDE



STANDARD TRIMMERS

These variable compression mica trimming capacitors are produced by stacking mica dielectric capacitance units. A capacitor section consists of a thin film of mica between two spring loaded nonferrous metal conducting plates; the stacked units are mounted within a ceramic container, or on a ceramic base. By alternating metal plate, mica film, metal plate, etc., and paralleling these units, any desired capacitance within the physical limitations of the ceramic base can be achieved. A panhead adjusting screw (#2-64, UNS-2) thread for types 40 and 42 and a (#4-64, UNS-2) thread for types 40 and 45 in inserted through the sector balance. thread for type 46 is inserted through the center holes of the plates, the mica films, and the threaded bushing. This screw provides variable compression on the formed metal plates, varying the plate separation capacitance.

Arco trimming capacitors are treated for resistance to humidity and for permanence of capacity setting.

The base is made of the lowest loss ceramic dielectric available and the mica is clear India Ruby.

The soldering lugs may be bent in any position without affecting the capacitance setting.

Trimmers shown are standard sizes and capacities.

Standard dimensional adjustment tolerance is ± 1/32" or ± 3½°, whichever is applicable. Terminals having several lugs can be spotwelded together to prevent separation and flaring.

Specifications

OPERATING TEMPERATURE: -35°C to ±85°C.

MAXIMUM CAPACITANCE: Equal to, or greater than the value indicated in the table. When the adjusting screw is at a tight position (with tight being defined as 13/4 pound-inches). The maximum capacitance will be equal to or greater than the value indicated in the table.

MINIMUM CAPACITANCE: Equal to, or less than, the value indicated in the table. When the adjusting screw is rotated 3 turns from tight position, the maximum capacitance will be equal to or less than the value indicated in the table.

DC VOLTAGE:	Rated Voltage 1	Test V	oltage
Type 30	250	5	00
Types 40, 42, 46	175	3	50
Type 30M	500	10	00
INSULATION	RESISTANCE	at	25°C
100,000 meg-c	ohms minimum		

Q at 1 MHz: See Q curve, Figure 1.

Q vs Capacitance (1 MHz) CAPACITANCE IN pF

DISSIPATION FACTOR at 1 kHz: > 1000 pF Max; D.F. . 004 max. CAPACITANCE CHANGE WITH TEM-PERATURE at Working Point*: TYPE 30: = \pm (2.5% + 0.3 pF) TYPE 40, 42, 46: = \pm (1.5% + 0.3 pF) CAPACITANCE DRIFT WITH TEMPER-ATURE at Working Point*: TYPE 30: = \pm (2.0% + 0.5 pF) TYPE 40, 42, 46: = \pm (1.5% + 0.5 pF) Screw adjusted to 1/4 to 1/2 turn from tight.

TYPE DESIGNATION

0423

1) Mounting Style ST - Standard Bracket Mounting Style

PC - Printed Circuit Mounting

Style

— Variation of Printed Circuit Mounting Style

2) Indicates shape, construction, dimensions and capacitance.



Variable Compression Mica Padders

The Arco Type 30 Variable Compression Mica Padder is designed with a ceramic base having walls which completely enclose and protect the plates and mica films from damage due to handling. The spring of the brass plates assures freedom from mechanical fatigue, and applies a constant pressure when the adjusting screw is varied from tight to open position. All plates are cadmium plated to facilitate production soldering.

MINIMUM CAPACITANCE (equal to, or less than, the value indicated below) shall occur when the adjusting screw is rotated 3 turns from a tight position.

MAXIMUM CAPACITANCE (equal to, or greater than, the value indicated below) shall occur when the adjusting screw is at tight positions (with tight being defined as 1¾ pound-inches).

TYPE 30 250 WVDC - 500 Volts DC Flash-Test

	GUARANTEED RANGE		
PART NUMBER	At 134 Inch Pounds Cap. Will Be More Than pF.	At 3 Turns Open Cap. Will Be Less Than pF.	
302 303 304 305 306 307 308 309 310 311 312 313 314 315	130 340 550 760 970 1180 1390 1600 1890 2110 2330 2605 2830 3055	15 65 115 190 275 350 450 550 650 780 880 1150 1300	

Screw is insulated from top plate by mica washer. Above maximum capacity values are based on using $1\frac{1}{2}$ to $1\frac{3}{4}$ Mil Mica Films.

TYPE 30-M
500 WVDC - 1000 Volts DC Flash-Test

	GUARANTEED RANGE		
PART NUMBER	At 13/4 Inch Pounds Cap. Will Be More Than pF.	At 3 Turns Open Cap. Will Be Less Than pF.	
302-M	120	15	
303-M	320	65	
304-M	500	100	
305-M	690	180	
306-M 307-M	880 1070	265	
308-M	1260	340 425	
309-M	1415	525	
310-M	1600	615	
311-M	1785	730	
312-M	1970	800	
313-M	2155	1000	
314-M	2340	1100	
315-M	2525	1200	

Screw is insulated from top plate by mica washer. Above maximum capacity values are based on using 2 to 2¼ Mil Mica.

TYPE L30

The Type 30 or Type 30M padder can now be obtained with a slotted shaft & bushing. To obtain this padder, precede the regular part number with the

part number with the letter "L". For example, a 302 padder with the slotted shaft bushing would be specified as "L-302".

